

# SEQUENCE LISTING

<110> Strachan, Lorna  
Sleeman, Matthew  
Abernethy, Nevin  
Onrust, Rene  
Kumble, Anand  
Murison, Greg

<120> Compositions isolated from stromal cells  
and methods for their use.

<130> 11000.1037C3

<160> 61

<170> FastSEQ for Windows Version 3.0

<210> 1  
<211> 803  
<212> DNA  
<213> Mouse

<400> 1

gttctgaatg	ggagcatcag	ccctctcttg	gctgttgccc	cgacattaca	ggctcctgtct	60
ctcagggacg	tgggccttgg	ttctggcgct	gcagagatgg	acttctctgc	gtttgggaat	120
ctgcgggctg	tggatctgtc	gggaaactcc	ctgaccagct	tccaaaagt	caagggcagt	180
ttggcccttc	ggactctcga	cctccgcaga	aactctctca	cggccctccc	tcagagggtt	240
gtgtccgagc	agcctctgag	gggtctgcag	accatctacc	tcagccagaa	cccttatgac	300
tgctgtgggg	tggaggatg	gggggcccctg	cagcagcact	tcaagactgt	tgcggacttg	360
tccatgggtca	cttgcaacct	ctcttccaag	atcgtccgtg	tgggtggagct	gcccgaaggc	420
ctgcctcagg	gctgtaagt	ggaacagggtg	gacactggctc	tcttctacct	cgtgctcatc	480
ctgcccagct	gcctcaccct	gctgggtggcc	tgtactgtcg	tcttctctcac	ttttaagaag	540
cctttgtctc	aggtcatcaa	gagccgctgc	cactggctcct	ccatatactg	acccgtgtgc	600
caaggctaga	gacttggttt	ttcctcgagg	atgcgtctct	ccgctggatc	tttacttttg	660
caggggtcga	gtgtgatgca	ttgaagggtta	aaactgaaat	ttgaaagagt	tccatcctca	720
gtcccattaa	cttctcctcc	catccgtgtg	atttatcctc	attgtcctgg	tgaaatatat	780
attaaacgac	attctgtgag	att				803

<210> 2  
<211> 689  
<212> DNA  
<213> Mouse

<400> 2

gtcgcctgag	gtccccgccg	acgacgcact	caccatggcg	cctgctaacc	ttgggctgac	60
gccgcactgg	gtgatgctcc	tccgtgccgt	gctgctgttg	cttctgtccg	gagcctccgc	120
caggaacct	ccgagagtgg	gttgctctga	gtacacaaac	agatcctgtg	aagagtgcct	180
caggaatgtc	tccgtgtctg	gggtgcaatga	gaacaaggcg	tgtatggact	accagttag	240
gaaaatcttg	ccccctgctt	ctctctgtaa	attgagttcc	gctcgtggg	gcgtatgctg	300
gggtgaacttc	gaggccttga	tcataccat	gtcggctctg	gggggctctg	tgctcctggg	360
catcactgtg	tgctgctgct	actgctgccg	ccggaagaag	agccggaagc	cagacaagag	420
cgatgagcgg	gccatgagag	agcaggagga	gaggagagt	cggcaggagg	aaaggagggc	480
ggaaatgaag	tcaagacatg	atgaaatcag	gaaaaaatac	ggtctgttta	aagaacaaaa	540

cccgatgag	aagttctaag	gtggctggca	cacacttggt	gtggatcgtg	cagttccaga	600
gtttcctggg	aatgcactcc	ccagcagagc	ctgcagagac	ctcaccacca	tggccaccct	660
tgacctgggt	gatccctcag	cctctactg				689

<210> 3  
 <211> 619  
 <212> DNA  
 <213> Mouse

<400> 3						
ggcaccagg	aagccctgcc	gcgccctgtc	ccacagaacc	tgcaccccca	gatgccgccc	60
tatgcctttg	ttcaccacc	cttccccctg	ccacctgtgc	ggcccggtgt	caacaacttc	120
cccatcaaca	tgggtcctgt	gcccgcctcc	tatgtccccc	ctctgcccac	cgtgcgtgtc	180
aactatgact	ttggccacat	gcacgtgccc	ctggagcaca	acctgcccac	gcactttggc	240
cccccaacc	ggcatcgctt	ctgacaccca	aagccctgtc	agccgtgccc	agtctgtagg	300
agggccaggt	ctcatcttct	gagtaggggt	gaaggccctc	attccctctc	gaaagtggac	360
gcgtgtccct	ctgctcttac	ctttgcaagg	tccatgctcc	ttcaggctct	atgccctctg	420
ggtgctgatt	gtcactgggc	caattatagg	gcagctccct	agtctgccc	cttagcagcc	480
aatccagtg	ccctgaccat	gaagcaaggc	ctctaactgt	ttgccatact	tcctccccag	540
cagcccaatg	aaagcccagg	gggaaatggc	ctaccatccc	taagccagg	ctctctcctt	600
gttgcccaag	gcccaactta					619

<210> 4  
 <211> 1630  
 <212> DNA  
 <213> Mouse

<400> 4						
ggcgctgag	cctcaggatg	aaccctgtgt	ttcctagcgg	gctgtatggc	tctcggtttt	60
tctcaacgct	cccgtatggt	ggccgcgggt	gccgggggtga	cccggctgct	agtgcctctg	120
ctgatggtag	ccgcggctcc	tagcagagcc	cgaggcagcg	gctgcggggt	cggggccctc	180
gcgcgtggga	ccggggccga	tggccgtgaa	gctgagggct	gtggcaccgt	ggctttgctg	240
atggagcatt	catttgagct	cgggtgatga	gccaaacttc	agaagcgagg	cttgctgctc	300
tggaaaccag	aggatggcac	cctgtcggca	acacagcgac	agctcagtga	ggaggagcgt	360
ggccgactcc	gggatgtggc	tgtgttcaat	ggcctctaca	gggtccgggt	cccaggcggg	420
cctgggacac	ttgatggttc	agaagctggc	ggccatgtgt	cttccctcgt	cccagcgtgc	480
tccttggtgg	agtcgcacct	ttcggaccag	ctgaccttgc	acgtggatgt	ggctggcaac	540
gtggtggggc	tgtctgtggt	ggtgtaccct	gggggctgcc	ggggctccga	ggtggaagat	600
gaggacctgg	agctgttcaa	tacatctgtg	cagctgcggc	ctcccagcac	tgctccaggc	660
cccagactg	cagccttcat	tgagcgcttg	gagatggagc	aggcccagaa	ggccaagaac	720
ccacaggagc	agaagtcttt	ctttgcaaaa	tactggatgt	acatcattcc	agttgtgctg	780
ttcctcatga	tgtcgggagc	gccggacgct	ggggggcagg	gcggcggtgg	gggcgggggc	840
agcagccggg	gagcagctgt	gccacctaga	gcccccccca	gagccagccc	aagaaggagt	900
tcctgacccc	acatttccct	attgcatgaa	tatggaaggc	tgtcccttca	gtgagccctc	960
tggccttcc	gtaagccctt	ctttctgtcc	ctgagcctct	ctctcatcct	gttgactgag	1020
agcttggttg	gacctccctg	tagccagctc	actgcaactg	tgtcccacca	tgtggcactg	1080
tgctcctctg	tctgctaaac	accaccagc	ctgccccacc	ccaccacc	atacattttg	1140
ggaacttgcc	aaagctctct	cagcctctgt	gcctttgccc	tgcaggcccc	gtgcgcccct	1200
cactgtcact	ctccagccct	ttgccaaagg	tctgtggccc	agaggcctct	gctcttagtg	1260
gctaggtcag	cctccagccc	actgtccagg	tggcatgctg	tcttctttgc	ccccctctct	1320
ggtgccccag	aataccatgg	tgacctacca	ctatcctttc	tgccttttga	tgtcatagcc	1380
tggatctgtc	accaggagag	gattgtgggc	ctccacgtta	gtctgtgaat	gcacacttcg	1440
agtgacttgt	gtgcaggttt	tgagagccgg	ttttgactta	gctgctcgac	agctgctggc	1500
atggcctgtc	tcttgacat	gcgcgctgt	gggcatgggg	attgctgtgc	agcctcagct	1560
gtgtgtgtgt	gctgctgatt	aaactgtccc	ctaaacagca	aaaaaaaaaa	aaaaaaaaaa	1620
aaaaaaaaaa						1630

<210> 5  
 <211> 1197  
 <212> DNA  
 <213> Mouse

<400> 5

ggcaccagac	gactggggcc	ctaccccatg	tggacaacct	caccatgcgt	ctggaccccc	60
gtgtggggcg	ctcagtata	ggcgtagtga	cagtacagc	gacagctaga	gggatgatag	120
acccccaaac	tagtggactt	tgaagttttc	ttcccagccg	gttccagcct	cctggaacaa	180
ccatgtcgcc	agttttgcgc	gtgccaaatt	cacggcgctg	cccaagcgga	gctgctatct	240
gaattctcct	tggatgtggc	aaagggaaat	gaacgcaaaa	ggtgccgctg	gaagtgtccg	300
acctagagaa	atatgtagac	cggagccctg	ttaccttctt	ccagcatgga	cttcttggtt	360
ctcttcttgt	tctacttggc	cttcttattg	atttgtgttg	tcctgatctg	catcttcaca	420
aaaagccagc	gtttgaaggc	cgtggctcct	ggaggagcac	aggtagcact	ggtccttggg	480
tactgcccgg	atgtgaatac	tgtgttaggt	gctagtctgg	aaggctcaca	agacaagggg	540
atgtgagtct	tgtctttaat	cctggcactt	gggaggctga	ggcttcgggg	ccagttgggg	600
ctacatcgca	agagcctgtg	tccaaacaaa	caaaacgttg	tctttttgct	ttgagatagg	660
tcgaataggt	cgaattttca	aggttggcct	tttaaacagt	gtgtaatgtc	tgtatttggg	720
tgtgactcct	gtttgcctag	acatgcttgt	agcaggtgtg	aactcaggag	gacacaagtg	780
accagaaagc	tgagcatcta	gctgtcaatc	ttcccttcac	attgtcccat	ctgtcttccc	840
ttgggggtca	aagcaaagtg	ggggcaagta	gccacgaagg	ggttgacttg	ggaggacctt	900
ggggatctgg	aggccaatct	tgagcatgga	gcagacctga	gggttaggga	agcccacgtc	960
cacagcagcc	tctgcacacc	ccctttcccc	acagactcca	acagacacat	tctgtgcagt	1020
caaggtagaa	atggaggtgt	tctctacacc	tcctaaatcc	tagcacttag	gaagctgagg	1080
caggattatg	aattccaggc	tagctcgggt	tatgtaatga	gactgtttca	aacacagagc	1140
ggagccgagg	agatggctgg	gcagtcacag	agctgccgtg	caaccagaac	tggagggg	1197

<210> 6  
 <211> 1435  
 <212> DNA  
 <213> Mouse

<400> 6

catgggcgcc	gtctggctcag	ccctgctggg	cggcgggggg	ctagctggag	cgctcctcct	60
gtggctgctg	cggggagact	ctggggcccc	ggggaaagac	ggggttgcgg	agccgccgca	120
gaagggcgca	cctcctgggg	aggctgcggc	cccgggagac	ggtccgggtg	gtgggtggcag	180
tggcgggcctg	agccctgaac	cttccgatcg	ggagctgggtc	tccaaagcag	agcatcttcg	240
agaaagcaac	ggacatttga	tttctgagag	caaagatctt	ggtaacctgc	cggaaagcaca	300
gcggtctgcag	aatgtttggag	cagactgggt	caatgccaga	gagtttgttc	ctgttgggaa	360
gattccagac	acacactcca	gggcccagctc	tgaagcggca	agaaatcaaa	gcccaggatc	420
tcattggagga	gaatggagac	tccccaaagg	acaagaaaca	gctgtcaaaag	tagctggcag	480
tgtggccgca	aagctggcct	ccagcagcct	gcttgtggac	agagctaaag	cagtcagtca	540
ggaccaggca	ggccacgagg	actgggaagt	ggtgtctagg	cactcatctt	gggggagtg	600
tggtttgggt	ggcagtcctg	aggcttctag	gttaagtcta	aatcagagaa	tggacgacag	660
cacaaacagt	cttgtgggag	gaagaggctg	ggaagtagat	gggaaagtgg	catctctgaa	720
acctcaacag	gtcagcatcc	agttccagg	gcactacacc	acaaacaccg	atgtgcagtt	780
cattgcagtg	actggagacc	atgagagcct	tgggagatgg	aacacataca	tcccactcca	840
ctactgcaaa	gacgggctct	ggtctcattc	tgtcttctctg	cctgcagaca	cagtgggtgga	900
gtggaagtgc	gtgttggtag	agaataagga	agttactcgt	tgggaagaat	gcagcaatag	960
attcctgacg	actggccatg	aggataaagg	ggttcatggg	tgggtggggga	ttcactgact	1020
cagttttcag	agcatccaag	aggctgcagc	agaatgtgga	caaggctaag	gcttttagagc	1080
gcactgcata	gcttaaagta	aaggcggtgt	gattccaatt	gtagccatca	gggctctttc	1140
agatttgcta	gtgtggcttt	tgtccaaaat	gtaggaagat	gtatgcctgc	agataatgct	1200
tcctgtaanc	tggcacttgt	cccttattgt	attgactggg	ttgtgctgac	acatcaggac	1260
ttgaggaatt	gatcatcctg	ggtagttgca	tcttgggtag	tacacctgag	gtatggacta	1320
catatgggca	aggagcaact	aagcaactgc	acgggtacaa	ggtagagcgc	ccttagcagc	1380
tcttagacta	gaaagactac	aataagcccc	atcaaacaca	gctaaagcaa	cactg	1435

<210> 7  
 <211> 1131  
 <212> DNA  
 <213> Mouse

<400> 7

ggcaccagcc	cggtcttctgt	gtctccgctca	gtctccagcg	atccctccct	acctccgccc	60
tccatggcgt	cgctcctgtg	ctgtgggcct	aagctggcgg	cctgtggcat	cgctcctcagc	120
gcctggggag	tgatcatgtt	gataatgctc	gggatatttt	tcaatgtcca	ttctgctgtg	180
ttaattgagg	acgttccctt	cacagagaaa	gattttgaga	acggctcctca	gaacatatac	240
aacctgtacg	agcaagtcag	ctacaactgt	ttcatcgccg	cgggcctcta	cctcctcctc	300
ggaggcttct	ccttctgccca	agttcgtctc	aacaagcgca	aggaatacat	ggtgcgctag	360
agcgcggctc	gcctctccct	ccccagcccc	cttctctatt	taaagactcc	gcagactccg	420
tcccactcat	ttggcgctct	ttgggacttg	tgaccctagc	gagacgtcat	ccctggccct	480
gcaaaaactgc	gcccagcctc	tggaggagac	cgagggtgac	cgcgccccgt	tctgaactac	540
aataaaaaga	agcgggttccc	cctaagcttg	ctgtctgtgc	tttcaggagg	gggcggggccc	600
gggctggaag	gggctgagac	cggcctcatc	gaggagtccg	gacctccga	cggaagtggga	660
atgaagctag	ccggaagtga	agcaacgtct	tccacctcgt	cttctcctcg	gcggcgaggc	720
cccttgagtg	actggggaga	ggtcgggtct	cggccaatca	gctgcaggga	gggcgggact	780
ttctgcgcgg	gagcccgagc	ggcgggtgc	cgggctctcc	gtgggttcca	gctcgcgtgg	840
tgggtggtgg	ggcggagcgt	ctccgtgagg	aggtgcgcgg	ggccatgacg	tcagcgtcca	900
ccaaggttgg	agagatcttc	tccgcggccg	gcgccgcctt	cacgaagctc	ggggagttga	960
cgatgcagct	gcattccagtc	tcggactctt	cccctgcccg	tgccaagtgg	acggagacgg	1020
agatagagat	gctgagggct	gctgtgaagc	gctttgggga	cgatcttaat	cacatcagct	1080
gtgtcatcaa	ggaacggaca	gtggctcaga	taaagaccac	tgtgaagcga	a	1131

<210> 8  
 <211> 1357  
 <212> DNA  
 <213> Mouse

<400> 8

gggagggcct	ggaggccgag	gcgggagggc	accagccaga	gcagctggcg	gcagacggca	60
ggcagacagt	cagaccgtct	agcgggcctg	gcttgccctac	ctggcagctg	caccgggtcc	120
ttcacccaga	gctggttcca	tagctcaaca	tgggtccctg	gttctcctctg	tctctgctgc	180
tacttgcgag	gcctgtgcct	gggggtggcct	actctgtgtc	actcccgccc	tccttctctgg	240
aggatgtagc	cggcagcggg	gaagctgagg	gttcttcagc	ctcttccccg	agcctgccgc	300
cgcttgggac	tccagccttc	agtcccacac	cggagagacc	ccagcccaca	gctctggacg	360
gccccgtgcc	accaccaaac	ctcctggaag	ggatcatgga	tttcttccgg	cagtacgtga	420
tgctcatcgc	ggtggtgggc	tcgctgacct	tcctcatcat	gttcatagtc	tgccgcgccc	480
tcattcacgcg	ccagaagcac	aaggccacag	cctactacct	atcctcgttc	cctgaaaaga	540
agtatgtgga	ccagagagac	cgggctgggg	gaccccgtag	cttcagcgag	gtccctgaca	600
gggcacctga	cagccggcat	gaagaaggcc	tggacacctc	ccatcagctc	caggctgaca	660
ttctggtctg	taccagaaac	ctccggtctc	cagctagagc	cctgccaggc	aatggggagg	720
gagcaaagcc	tgtgaagggt	gggtcggagg	aggaggagga	agagggtgctc	agcggtcagg	780
aggaggccca	ggaagcccca	gtatgtgggg	tcactgaaga	gaagctgggg	gtcccagagg	840
agtcggtctc	agcagaggct	gaaggggttc	ctgccaccag	tgaggggcaa	ggggaagcag	900
aagggtcttt	ctccttagcc	caggaatccc	agggagcaac	tggctctcct	gaaagtccct	960
gtgcttgcga	cagagtctcc	cccagtgtct	aacaggcccc	agaactgctg	ggacccgaat	1020
gttgggtctc	tgaggggtcac	ctctttgggtc	aagaaaggca	ttcagctcta	actgctcctt	1080
gataccacgt	ggcttggcca	ttgctggtgc	caaggctgac	cccgaactgg	cagagccgat	1140
gccctctggt	gcaccccagg	aaacatctcc	ccaagttcca	gcgcccttaa	tgactcttgc	1200
caccctgggg	gcttcacctt	aacgcaccac	ttctctggaa	ggggaaggcc	agacacatgc	1260
cagttggggc	tgcatgaggc	agtcctcaga	gcagaagggg	accaggccag	aggccacctg	1320
tgacggggca	aactgcattc	cggctgtgga	gaccaga			1357

<210> 9  
 <211> 815  
 <212> DNA  
 <213> Mouse

<400> 9

aggtcgacac	tagtggatcc	aaagaattcg	gcacgagggg	acgcggagcg	gtcgcgtgcg	60
cggagagcag	ctctgggcgc	cgggcgggtt	ctgcgggcgc	tcaggggccc	tgggaacaat	120
ggcgcgtgtg	gcgcgggcgc	cgctgctgct	gggcgtgctg	caggtgctgg	cgctgctagg	180
ggcgggcgag	gacccgaccg	acgctcaggg	ctctgcaagt	ggaaaccact	cagtgtgac	240
ctccaatatt	aacataacag	agaataccaa	ccagaccatg	agtgtggttt	ccaaccagac	300
cagtgaatg	cagagcaccg	cgaagccttc	cgtactgcca	aaaactacca	cacttatcac	360
tgtgaaacct	gcaactattg	ttaaaatata	aacccagga	gtcttaccac	atgtgacgcc	420
tactgcctca	aagtctacac	ccaatgcaag	tgcttctcca	aactctaccc	acacgtcagc	480
atccatgaca	accccgagcc	acagtagttt	attgacaact	gtaacgggtt	cagcaactac	540
tcattccacc	aaaggcaaa	gatccaagtt	tgatgccggc	agctttgttg	gtggtatagg	600
tgtaaacact	gggagtttta	tctattctct	acattggatg	caaaatgtat	tattcaagaa	660
gaggcattcg	gtaccgaagc	attgacgaac	atgatgccat	catttaaagt	acttcagtgg	720
tcaaggaaa	aagaaagact	gcagccttat	caattatttt	ggtttatatt	agtttaaact	780
attattttct	tggaagtagt	ataaacaagt	catgc			815

<210> 10  
 <211> 1129  
 <212> DNA  
 <213> Mouse

<400> 10

ccaacactcg	ccatgcgttc	tggggcactg	tggccgctgc	tttggggagc	cctgggtctg	60
acagtgggat	ccgtgggcgc	cgtgatgggc	tccgaggatt	ctgtgcccg	tggcgtgtgc	120
tggctccagc	agggcagaga	ggccacctgc	agtctggtgc	tgaagactcg	tgtagccgg	180
gaggagtgtc	gtgcttcagg	caacatcaac	accgcctggt	ccaacttcac	ccaccaggc	240
aataaaatca	gcctgctagg	gttctctggc	ctcgtccact	gcctcccctg	caaagattcc	300
tgcgacggag	tggagtgcgg	ccccggcaag	gcgtgcccga	atgctggggg	ggcgtccaac	360
aactgcgagt	gcgtgcccga	ctgcgagggg	tttcccgcgg	gcttccaggt	ctgcggctct	420
gatggcgcca	cctaccggga	cgaatgcgaa	ctgcgcaccg	cgcgctgtcg	cggacaccca	480
gacttgcgcg	tcattgtacc	cggccgctgt	caaaagtctt	gcgctcaggt	agtgtgccc	540
cgtccccagt	cgtgccttgt	ggatcagacc	ggcagcgcac	actgcgtggg	gtgtcgcgct	600
gcgccttgcc	cagtaccttc	caaccccgcc	caagaactct	gtggcaacaa	caacgttacc	660
tacatctcgt	cgtgtcacct	gcgccaggcc	acttgccttc	tgggccgctc	cattgggggt	720
cggcaccag	gcattctgc	aggtggcccc	aagttcctga	agtctggcga	tgctgccatt	780
gttgatatgg	tccttgga	gcccattgtg	gttgagagct	tctctgacta	ccctccactt	840
ggctgccttg	ctgttcgtga	catgaggcag	acagttgctg	tgggtgtcat	caaagctgtg	900
gacaagaagg	ctgctggagc	tggcaaagtc	accaagtctg	cccagaaagc	tcagaaggct	960
aatgaatat	tacccctaac	acctgccacc	ccagtcttaa	tcagtgggtg	aagaacggct	1020
tcagaactgt	ttgtctcaat	tggccattta	agtttaatat	taaaagactg	gttaatgata	1080
acaatgcata	gtaaaacctt	cagaaggaaa	gaatgttgtg	gaccattttt		1129

<210> 11  
 <211> 196  
 <212> PRT  
 <213> Mouse

<400> 11

Val	Leu	Asn	Gly	Ser	Ile	Ser	Pro	Leu	Trp	Ala	Val	Ala	Pro	Thr	Leu
1				5				10						15	
Gln	Val	Leu	Ser	Leu	Arg	Asp	Val	Gly	Leu	Gly	Ser	Gly	Ala	Ala	Glu
				20				25						30	

Met	Asp	Phe	Ser	Ala	Phe	Gly	Asn	Leu	Arg	Ala	Leu	Asp	Leu	Ser	Gly
	35						40					45			
Asn	Ser	Leu	Thr	Ser	Phe	Gln	Lys	Phe	Lys	Gly	Ser	Leu	Ala	Leu	Arg
	50					55					60				
Thr	Leu	Asp	Leu	Arg	Arg	Asn	Ser	Leu	Thr	Ala	Leu	Pro	Gln	Arg	Val
65					70					75					80
Val	Ser	Glu	Gln	Pro	Leu	Arg	Gly	Leu	Gln	Thr	Ile	Tyr	Leu	Ser	Gln
				85					90					95	
Asn	Pro	Tyr	Asp	Cys	Cys	Gly	Val	Glu	Gly	Trp	Gly	Ala	Leu	Gln	Gln
		100						105					110		
His	Phe	Lys	Thr	Val	Ala	Asp	Leu	Ser	Met	Val	Thr	Cys	Asn	Leu	Ser
	115						120					125			
Ser	Lys	Ile	Val	Arg	Val	Val	Glu	Leu	Pro	Glu	Gly	Leu	Pro	Gln	Gly
	130					135					140				
Cys	Lys	Trp	Glu	Gln	Val	Asp	Thr	Gly	Leu	Phe	Tyr	Leu	Val	Leu	Ile
145					150					155					160
Leu	Pro	Ser	Cys	Leu	Thr	Leu	Leu	Val	Ala	Cys	Thr	Val	Val	Phe	Leu
			165						170					175	
Thr	Phe	Lys	Lys	Pro	Leu	Leu	Gln	Val	Ile	Lys	Ser	Arg	Cys	His	Trp
			180					185					190		
Ser	Ser	Ile	Tyr												
		195													

<210> 12  
 <211> 174  
 <212> PRT  
 <213> Mouse

<400> 12															
Met	Ala	Pro	Ala	Asn	Leu	Gly	Leu	Thr	Pro	His	Trp	Val	Met	Leu	Leu
1				5					10					15	
Gly	Ala	Val	Leu	Leu	Leu	Leu	Leu	Ser	Gly	Ala	Ser	Ala	Gln	Glu	Pro
			20					25					30		
Pro	Arg	Val	Gly	Cys	Ser	Glu	Tyr	Thr	Asn	Arg	Ser	Cys	Glu	Glu	Cys
		35					40					45			
Leu	Arg	Asn	Val	Ser	Cys	Leu	Trp	Cys	Asn	Glu	Asn	Lys	Ala	Cys	Met
		50				55					60				
Asp	Tyr	Pro	Val	Arg	Lys	Ile	Leu	Pro	Pro	Ala	Ser	Leu	Cys	Lys	Leu
65					70					75					80
Ser	Ser	Ala	Arg	Trp	Gly	Val	Cys	Trp	Val	Asn	Phe	Glu	Ala	Leu	Ile
				85					90					95	
Ile	Thr	Met	Ser	Val	Leu	Gly	Gly	Ser	Val	Leu	Leu	Gly	Ile	Thr	Val
			100					105					110		
Cys	Cys	Cys	Tyr	Cys	Cys	Arg	Arg	Lys	Lys	Ser	Arg	Lys	Pro	Asp	Lys
	115						120					125			
Ser	Asp	Glu	Arg	Ala	Met	Arg	Glu	Gln	Glu	Glu	Arg	Arg	Val	Arg	Gln
	130					135					140				
Glu	Glu	Arg	Arg	Ala	Glu	Met	Lys	Ser	Arg	His	Asp	Glu	Ile	Arg	Lys
145					150					155					160
Lys	Tyr	Gly	Leu	Phe	Lys	Glu	Gln	Asn	Pro	Tyr	Glu	Lys	Phe		
				165					170						

<210> 13  
 <211> 106  
 <212> PRT  
 <213> Mouse

<400> 13  
 Ala Pro Gly Lys Pro Cys Arg Gly Leu Ser His Arg Thr Cys Ile Leu  
 1 5 10 15  
 Arg Cys Arg Pro Met Pro Leu Phe Thr His Pro Ser Pro Cys His Leu  
 20 25 30  
 Cys Gly Pro Cys Ser Thr Thr Ser Pro Ser Thr Trp Val Leu Cys Pro  
 35 40 45  
 Leu Pro Met Ser Pro Leu Cys Pro Thr Cys Val Ser Thr Met Thr Leu  
 50 55 60  
 Ala Thr Cys Thr Cys Pro Trp Ser Thr Thr Cys Pro Cys Thr Leu Ala  
 65 70 75 80  
 Pro Asn His Gly Ile Ala Ser Asp Thr Gln Ser Pro Val Ser Arg Ala  
 85 90 95  
 Glu Ser Val Gly Gly Pro Ser Leu Ile Phe  
 100 105

<210> 14  
 <211> 268  
 <212> PRT  
 <213> Mouse

<400> 14  
 Met Ala Leu Gly Phe Ser Gln Arg Ser Arg Met Val Ala Ala Gly Ala  
 1 5 10 15  
 Gly Val Thr Arg Leu Leu Val Leu Leu Leu Met Val Ala Ala Ala Pro  
 20 25 30  
 Ser Arg Ala Arg Gly Ser Gly Cys Arg Val Gly Ala Ser Ala Arg Gly  
 35 40 45  
 Thr Gly Ala Asp Gly Arg Glu Ala Glu Gly Cys Gly Thr Val Ala Leu  
 50 55 60  
 Leu Leu Glu His Ser Phe Glu Leu Gly Asp Gly Ala Asn Phe Gln Lys  
 65 70 75 80  
 Arg Gly Leu Leu Leu Trp Asn Gln Gln Asp Gly Thr Leu Ser Ala Thr  
 85 90 95  
 Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly Arg Leu Arg Asp Val Ala  
 100 105 110  
 Ala Val Asn Gly Leu Tyr Arg Val Arg Val Pro Arg Arg Pro Gly Thr  
 115 120 125  
 Leu Asp Gly Ser Glu Ala Gly Gly His Val Ser Ser Phe Val Pro Ala  
 130 135 140  
 Cys Ser Leu Val Glu Ser His Leu Ser Asp Gln Leu Thr Leu His Val  
 145 150 155 160  
 Asp Val Ala Gly Asn Val Val Gly Leu Ser Val Val Val Tyr Pro Gly  
 165 170 175  
 Gly Cys Arg Gly Ser Glu Val Glu Asp Glu Asp Leu Glu Leu Phe Asn  
 180 185 190  
 Thr Ser Val Gln Leu Arg Pro Pro Ser Thr Ala Pro Gly Pro Glu Thr  
 195 200 205  
 Ala Ala Phe Ile Glu Arg Leu Glu Met Glu Gln Ala Gln Lys Ala Lys  
 210 215 220  
 Asn Pro Gln Glu Gln Lys Ser Phe Phe Ala Lys Tyr Trp Met Tyr Ile  
 225 230 235 240  
 Ile Pro Val Val Leu Phe Leu Met Met Ser Gly Ala Pro Asp Ala Gly  
 245 250 255  
 Gly Gln Gly Gly Gly Gly Gly Gly Gly Ser Ser Arg  
 260 265

<210> 15  
 <211> 66  
 <212> PRT  
 <213> Mouse

<400> 15  
 Met Asp Phe Leu Val Leu Phe Leu Phe Tyr Leu Ala Phe Leu Leu Ile  
 1 5 10 15  
 Cys Val Val Leu Ile Cys Ile Phe Thr Lys Ser Gln Arg Leu Lys Ala  
 20 25 30  
 Val Val Leu Gly Gly Ala Gln Val Ala Leu Val Leu Gly Tyr Cys Pro  
 35 40 45  
 Asp Val Asn Thr Val Leu Gly Ala Ser Leu Glu Gly Ser Gln Asp Lys  
 50 55 60  
 Gly Met  
 65

<210> 16  
 <211> 338  
 <212> PRT  
 <213> Mouse

<400> 16  
 Met Gly Ala Val Trp Ser Ala Leu Leu Val Gly Gly Gly Leu Ala Gly  
 1 5 10 15  
 Ala Leu Ile Leu Trp Leu Leu Arg Gly Asp Ser Gly Ala Pro Gly Lys  
 20 25 30  
 Asp Gly Val Ala Glu Pro Pro Gln Lys Gly Ala Pro Pro Gly Glu Ala  
 35 40 45  
 Ala Ala Pro Gly Asp Gly Pro Gly Gly Gly Gly Ser Gly Gly Leu Ser  
 50 55 60  
 Pro Glu Pro Ser Asp Arg Glu Leu Val Ser Lys Ala Glu His Leu Arg  
 65 70 75 80  
 Glu Ser Asn Gly His Leu Ile Ser Glu Ser Lys Asp Leu Gly Asn Leu  
 85 90 95  
 Pro Glu Ala Gln Arg Leu Gln Asn Val Gly Ala Asp Trp Val Asn Ala  
 100 105 110  
 Arg Glu Phe Val Pro Val Gly Lys Ile Pro Asp Thr His Ser Arg Ala  
 115 120 125  
 Asp Ser Glu Ala Ala Arg Asn Gln Ser Pro Gly Ser His Gly Gly Glu  
 130 135 140  
 Trp Arg Leu Pro Lys Gly Gln Glu Thr Ala Val Lys Val Ala Gly Ser  
 145 150 155 160  
 Val Ala Ala Lys Leu Ala Ser Ser Ser Leu Leu Val Asp Arg Ala Lys  
 165 170 175  
 Ala Val Ser Gln Asp Gln Ala Gly His Glu Asp Trp Glu Val Val Ser  
 180 185 190  
 Arg His Ser Ser Trp Gly Ser Val Gly Leu Gly Gly Ser Leu Glu Ala  
 195 200 205  
 Ser Arg Leu Ser Leu Asn Gln Arg Met Asp Asp Ser Thr Asn Ser Leu  
 210 215 220  
 Val Gly Gly Arg Gly Trp Glu Val Asp Gly Lys Val Ala Ser Leu Lys  
 225 230 235 240  
 Pro Gln Gln Val Ser Ile Gln Phe Gln Val His Tyr Thr Thr Asn Thr  
 245 250 255  
 Asp Val Gln Phe Ile Ala Val Thr Gly Asp His Glu Ser Leu Gly Arg  
 260 265 270



Trp Asn Thr Tyr Ile Pro Leu His Tyr Cys Lys Asp Gly Leu Trp Ser  
275 280 285  
His Ser Val Phe Leu Pro Ala Asp Thr Val Val Glu Trp Lys Phe Val  
290 295 300  
Leu Val Glu Asn Lys Glu Val Thr Arg Trp Glu Glu Cys Ser Asn Arg  
305 310 315 320  
Phe Leu Gln Thr Gly His Glu Asp Lys Val Val His Gly Trp Trp Gly  
325 330 335  
Ile His

<210> 17  
<211> 119  
<212> PRT  
<213> Mouse

<400> 17  
Gly Thr Ser Pro Ala Ser Val Leu Arg Ser Val Ser Ser Asp Pro Ser  
1 5 10 15  
Leu Pro Pro Pro Ser Met Ala Ser Leu Leu Cys Cys Gly Pro Lys Leu  
20 25 30  
Ala Ala Cys Gly Ile Val Leu Ser Ala Trp Gly Val Ile Met Leu Ile  
35 40 45  
Met Leu Gly Ile Phe Phe Asn Val His Ser Ala Val Leu Ile Glu Asp  
50 55 60  
Val Pro Phe Thr Glu Lys Asp Phe Glu Asn Gly Pro Gln Asn Ile Tyr  
65 70 75 80  
Asn Leu Tyr Glu Gln Val Ser Tyr Asn Cys Phe Ile Ala Ala Gly Leu  
85 90 95  
Tyr Leu Leu Leu Gly Gly Phe Ser Phe Cys Gln Val Arg Leu Asn Lys  
100 105 110  
Arg Lys Glu Tyr Met Val Arg  
115

<210> 18  
<211> 280  
<212> PRT  
<213> Mouse

<400> 18  
Met Val Pro Trp Phe Leu Leu Ser Leu Leu Leu Leu Ala Arg Pro Val  
1 5 10 15  
Pro Gly Val Ala Tyr Ser Val Ser Leu Pro Ala Ser Phe Leu Glu Asp  
20 25 30  
Val Ala Gly Ser Gly Glu Ala Glu Gly Ser Ser Ala Ser Ser Pro Ser  
35 40 45  
Leu Pro Pro Pro Gly Thr Pro Ala Phe Ser Pro Thr Pro Glu Arg Pro  
50 55 60  
Gln Pro Thr Ala Leu Asp Gly Pro Val Pro Pro Thr Asn Leu Leu Glu  
65 70 75 80  
Gly Ile Met Asp Phe Phe Arg Gln Tyr Val Met Leu Ile Ala Val Val  
85 90 95  
Gly Ser Leu Thr Phe Leu Ile Met Phe Ile Val Cys Ala Ala Leu Ile  
100 105 110  
Thr Arg Gln Lys His Lys Ala Thr Ala Tyr Tyr Pro Ser Ser Phe Pro  
115 120 125  
Glu Lys Lys Tyr Val Asp Gln Arg Asp Arg Ala Gly Gly Pro Arg Thr

130		135		140
Phe Ser Glu Val Pro Asp Arg Ala Pro Asp Ser Arg His Glu Glu Gly				
145		150		155
Leu Asp Thr Ser His Gln Leu Gln Ala Asp Ile Leu Ala Ala Thr Gln				
	165		170	175
Asn Leu Arg Ser Pro Ala Arg Ala Leu Pro Gly Asn Gly Glu Gly Ala				
	180		185	190
Lys Pro Val Lys Gly Gly Ser Glu Glu Glu Glu Glu Glu Val Leu Ser				
	195		200	205
Gly Gln Glu Glu Ala Gln Glu Ala Pro Val Cys Gly Val Thr Glu Glu				
	210		215	220
Lys Leu Gly Val Pro Glu Glu Ser Val Ser Ala Glu Ala Glu Gly Val				
225		230		235
Pro Ala Thr Ser Glu Gly Gln Gly Glu Ala Glu Gly Ser Phe Ser Leu				
	245		250	255
Ala Gln Glu Ser Gln Gly Ala Thr Gly Pro Pro Glu Ser Pro Cys Ala				
	260		265	270
Cys Asn Arg Val Ser Pro Ser Val				
	275		280	

<210> 19  
 <211> 188  
 <212> PRT  
 <213> Mouse

<400> 19
Met Ala Leu Cys Ala Arg Ala Ala Leu Leu Gly Val Leu Gln Val
1 5 10 15
Leu Ala Leu Leu Gly Ala Ala Gln Asp Pro Thr Asp Ala Gln Gly Ser
20 25 30
Ala Ser Gly Asn His Ser Val Leu Thr Ser Asn Ile Asn Ile Thr Glu
35 40 45
Asn Thr Asn Gln Thr Met Ser Val Val Ser Asn Gln Thr Ser Glu Met
50 55 60
Gln Ser Thr Ala Lys Pro Ser Val Leu Pro Lys Thr Thr Thr Leu Ile
65 70 75 80
Thr Val Lys Pro Ala Thr Ile Val Lys Ile Ser Thr Pro Gly Val Leu
85 90 95
Pro His Val Thr Pro Thr Ala Ser Lys Ser Thr Pro Asn Ala Ser Ala
100 105 110
Ser Pro Asn Ser Thr His Thr Ser Ala Ser Met Thr Thr Pro Ala His
115 120 125
Ser Ser Leu Leu Thr Thr Val Thr Val Ser Ala Thr Thr His Pro Thr
130 135 140
Lys Gly Lys Gly Ser Lys Phe Asp Ala Gly Ser Phe Val Gly Gly Ile
145 150 155 160
Gly Val Asn Thr Gly Ser Phe Ile Tyr Ser Leu His Trp Met Gln Asn
165 170 175
Val Leu Phe Lys Lys Arg His Ser Val Pro Lys His
180 185

<210> 20  
 <211> 317  
 <212> PRT  
 <213> Mouse

<400> 20

Met Arg Ser Gly Ala Leu Trp Pro Leu Leu Trp Gly Ala Leu Val Trp  
 1 5 10 15  
 Thr Val Gly Ser Val Gly Ala Val Met Gly Ser Glu Asp Ser Val Pro  
 20 25 30  
 Gly Gly Val Cys Trp Leu Gln Gln Gly Arg Glu Ala Thr Cys Ser Leu  
 35 40 45  
 Val Leu Lys Thr Arg Val Ser Arg Glu Glu Cys Cys Ala Ser Gly Asn  
 50 55 60  
 Ile Asn Thr Ala Trp Ser Asn Phe Thr His Pro Gly Asn Lys Ile Ser  
 65 70 75 80  
 Leu Leu Gly Phe Leu Gly Leu Val His Cys Leu Pro Cys Lys Asp Ser  
 85 90 95  
 Cys Asp Gly Val Glu Cys Gly Pro Gly Lys Ala Cys Arg Asn Ala Gly  
 100 105 110  
 Gly Ala Ser Asn Asn Cys Glu Cys Val Pro Asn Cys Glu Gly Phe Pro  
 115 120 125  
 Ala Gly Phe Gln Val Cys Gly Ser Asp Gly Ala Thr Tyr Arg Asp Glu  
 130 135 140  
 Cys Glu Leu Arg Thr Ala Arg Cys Arg Gly His Pro Asp Leu Arg Val  
 145 150 155 160  
 Met Tyr Arg Gly Arg Cys Gln Lys Ser Cys Ala Gln Val Val Cys Pro  
 165 170 175  
 Arg Pro Gln Ser Cys Leu Val Asp Gln Thr Gly Ser Ala His Cys Val  
 180 185 190  
 Val Cys Arg Ala Ala Pro Cys Pro Val Pro Ser Asn Pro Gly Gln Glu  
 195 200 205  
 Leu Cys Gly Asn Asn Asn Val Thr Tyr Ile Ser Ser Cys His Leu Arg  
 210 215 220  
 Gln Ala Thr Cys Phe Leu Gly Arg Ser Ile Gly Val Arg His Pro Gly  
 225 230 235 240  
 Ile Cys Thr Gly Gly Pro Lys Phe Leu Lys Ser Gly Asp Ala Ala Ile  
 245 250 255  
 Val Asp Met Val Pro Gly Lys Pro Met Cys Val Glu Ser Phe Ser Asp  
 260 265 270  
 Tyr Pro Pro Leu Gly Arg Phe Ala Val Arg Asp Met Arg Gln Thr Val  
 275 280 285  
 Ala Val Gly Val Ile Lys Ala Val Asp Lys Lys Ala Ala Gly Ala Gly  
 290 295 300  
 Lys Val Thr Lys Ser Ala Gln Lys Ala Gln Lys Ala Lys  
 305 310 315

<210> 21

<211> 384

<212> DNA

<213> Mouse

<220>

<221> unsure

<222> (369) ... (369)

<400> 21

ggtggacttc	ggtgggacaa	cgctcctcca	gtgcaagggtg	cgcagtgacg	tgaagcctgt	60
gatccagtgg	ctgaagcggg	tggagtacgg	ctccgagggg	cgccacaact	ccaccattga	120
tgtgggtggc	cagaagtttg	tgggtgtgcc	cacgggtgat	gtgtgggtcac	ggcctgatgg	180
ctcctacctc	aacaagctgc	tcctctctcg	ggcccgccag	gatgatgctg	gcatgtacat	240
ctgcctaggt	gcaaatacca	tgggctacag	tttccgtagc	gccttctctca	ctgtattacc	300
agaccccaaa	cctccagggc	ctcctatggc	ttcttcatcg	tcatccacaa	gcctgccatg	360

gcctgtggng atcggcaccc cagc

384

<210> 22  
<211> 1967  
<212> DNA  
<213> Mouse

<400> 22

gctgcgcgcc	cccgcgctga	tccctgtcga	gcgtctacgc	gcctcgttc	ctttgcctgg	60
agctcggcgc	cgaggggggc	cggaccctgg	ctctgcggcc	gcgacctggg	tcttgcgggc	120
ctgagccctg	agtggcgctc	agtccagctc	ccagtgcgcg	cgccctgct	tcaggtccga	180
ccggcgagat	gacgcggagc	cccgcgctgc	tgctgctgct	attggggggc	ctcccgtcgg	240
ctgaggcggc	gcgaggaccc	ccaagaatgg	cagacaaaag	ggtcccacgg	caggtggccc	300
gcctggggcg	cactgtgcgc	ctacagtgcc	cagtggaggg	ggaccaccca	ccgttgacca	360
tgtggaccaa	agatggcgcg	acaatccaca	gtggctggag	ccgcttccgt	gtgctgcccc	420
agggctctga	ggtgaaggag	gtggaggccg	aggatgccgg	tgtttatgtg	tgcaaggcca	480
ccaatggctt	tggcagcctc	agcgtcaact	acactctcat	catcatggat	gatattagtc	540
cagggaaagg	gagccctggg	ccaggtgggt	cttcgggggg	ccaggaggac	ccagccagcc	600
agcagtgggc	acggcctcgc	ttcacacagc	cctccaagat	gaggcgccga	gtgattgcac	660
ggcctgtggg	tagctctgtg	cggctcaagt	gtgtggccag	tgggcaccca	cggccagaca	720
tcattgtgat	gaaggatgac	cagaccttga	cgcactctaga	ggctagtga	cacagaaaga	780
agaagtggac	actgagcttg	aagaacctga	agcctgaaga	cagtggcaag	tacacgtgcc	840
gtgtatctaa	caaggccggt	gccatcaacg	ccacctacaa	agtggatgta	atccagcgga	900
ctcgttccaa	gcctgtgctc	acagggacac	accctgtgaa	cacaacggtg	gacttcggtg	960
ggacaacgtc	cttcagtgct	aaggtgcgca	gtgacgtgaa	gcctgtgatc	cagtggctga	1020
agcgggtgga	gtacggctcc	gagggacgcc	acaactccac	cattgatgtg	ggtggccaga	1080
agttttgtgt	gttggccacg	ggtgatgtgt	ggtcacggcc	tgatggctcc	tacctcaaca	1140
agctgctcat	ctctcggggc	cgccaggatg	atgctggcat	gtacatctgc	ctaggtgcaa	1200
ataccatggg	ctacagtttc	cgtagcgctt	tcctcactgt	attaccagac	cccaaaccctc	1260
cagggcctcc	tatggcttct	tcactgctcat	ccacaagcct	gccatggcct	gtggtgatcg	1320
gcatcccagc	tgggtgctgtc	ttcatcctag	gcactgtgct	gctctggctt	tgccagacca	1380
agaagaagcc	atgtgcccc	gcatctacac	ttcctgtgcc	tgggcacgtg	ccccagggga	1440
catcccagag	acgcagtggg	gacaaggacc	tgccctcatt	ggctgtgggg	atatgtgagg	1500
agcatggatc	cggcatggcc	ccccagcaca	tcctggcctc	tggctcaact	gctggcccca	1560
agctgtaccc	caagctatac	acagatgtgc	acacacacac	acatacacac	acctgcactc	1620
acacgctctc	atgtggaggg	caaggttcat	caacaccagc	atgtccacta	tcagtgtctaa	1680
atacagcgaa	tctccaagca	ctgtgtcctg	aggtaggcat	atggggggcca	aggcaacagg	1740
ttggggagaat	tgagaacaat	ggaggaagag	tatcttaggg	tgccttatgg	tggaacttca	1800
caaacttggc	catatagatg	tatgtactac	cagatgaaca	gccagccaga	ttcacacacg	1860
cacatgttta	aacgtgtaaa	cgtgtgcaca	actgcacaca	caacctgaga	aaccttcagg	1920
aggattttggg	gtgtgacttt	gcagtgcacat	gtagcgtagg	ctagttag		1967

<210> 23  
<211> 1742  
<212> DNA  
<213> Mouse

<400> 23

gcgcggcgcc	ccggggccct	cgccccgcgc	ccccctcttc	ccgccccgcg	caagcctcgc	60
cgtttatccg	cgcggacagc	gcgccccgcg	ccccagcccc	gccctagccg	ccagcgccca	120
ggtagcgccg	ccccggccag	gccccggccg	ggggcgcggg	gggcgggatg	cggcgcccg	180
ggcagcgatg	accgcgtcgc	gctgctcagg	ggccccgctc	tgaccccggt	gcctgctgcg	240
cgccccgcgc	ctgatccctg	tcgagcgtct	acgcgcctcg	cttcctttgc	ctggagctcg	300
gcgcggaggg	gggcgggacc	ctggctctgc	ggcgcgaccc	tgggtcttgc	gggcctgagc	360
cctgagtggc	gtccagtgca	gctcccagtg	accgcgcccc	tgccttcagg	ccgaccggcg	420
agatgacgcg	gagccccgcg	ctgctgctgc	tgctattggg	ggccctcccg	tcggctgagg	480
cggcgcgaga	tgatattagt	ccaggggaagg	agagccctgg	gccaggtggg	tcttcggggg	540

gdcaggagga	cccagccagc	cagcagtg	ggg	cacggcctcg	cttcacacag	ccctccaaga	600
tgaggcgccg	agtgattgca	cggcctgtgg	gtagctctgt	gcggctcaag	tgtgtggcca		660
gtgggcaccc	acggccagac	atcatgtgga	tgaaggatga	ccagaccttg	acgcatctag		720
aggctagtga	acacagaaag	aagaagtgga	cactgagctt	gaagaacctg	aagcctgaag		780
acagtggcaa	gtacacgtgc	cgtgtatcta	acaaggccgg	tgccatcaac	gccacctaca		840
aagtggatgt	aatccagcgg	actcgttcca	agcctgtgct	cacagggaca	caccctgtga		900
acacaacggt	ggacttcggt	gggacaacgt	ccttccagtg	caaggtgctc	agtgacgtga		960
agcctgtgat	ccagtggtcg	aagcgggtgg	agtacggctc	cgagggacgc	cacaactcca	1020	
ccattgatgt	gggtggccag	aagtttgtgg	tgttgccac	gggtgatgtg	tggtcacggc	1080	
ctgatggctc	ctacctcaac	aagctgctca	tctctcgggc	ccgccaggat	gatgctggca	1140	
tgtacatctg	cctaggtgca	aataccatgg	gctacagttt	ccgtagcgcc	ttctctactg	1200	
tattaccaga	ccccaaacct	cctccagggc	ctcctatggc	ttcttcatcg	tcattccaaa	1260	
gcctgccatg	gcctgtgggt	atcggcatcc	cagctgggtgc	tgtcttcatc	ctaggcactg	1320	
tgtctgtctg	gctttgccag	accaagaaga	agccatgtgc	cccagcatct	acacttcctg	1380	
tgcttgggca	tcgtcccca	gggacatccc	gagaacgcag	tggtgacaag	gacctgccct	1440	
cattggctgt	gggcatatgt	gaggagcatg	gatccgccat	ggccccccag	cacatcctgg	1500	
cctctggctc	aactgctggc	cccaagctgt	accccaagct	atacacagat	gtgcacacac	1560	
acacacatac	acacacctgc	actcacacgc	tctcatgtgg	agggcaagggt	tcataaacac	1620	
cagcatgtcc	actatcagtg	ctaaatacag	cgaatctcca	agcactgtgt	cctgaggtag	1680	
gcatatgggg	gccaaaggcaa	caggttggga	gaattgagaa	caatggagga	agagtatctt	1740	
ag						1742	

<210> 24  
 <211> 1004  
 <212> DNA  
 <213> Human

<400> 24						
gcggccgcga	ccccaggtcc	ggacaggccg	agatgacgcc	gagccccctg	ttgctgctcc	60
tgctgccgcc	gctgctgctg	ggggccttcc	caccggccgc	cgccgcccga	ggccccccaa	120
agatggcgga	caaggtggtc	ccacggcagg	tgccgggctg	ggccgcactg	tgcggtgca	180
gtgcccagtg	agggggaccc	gccgcgctg	accatgtgga	ccaaggatgg	ccgcaccatc	240
cacagcggct	ggagccgctt	ccgcgtgctg	ccgcaggggc	tgaaggtgaa	gcaggtggag	300
cgggaggatg	ccggcgtgta	cgtgtgcaag	gccaccaacg	gcttcggcag	ccttagcgct	360
aactacaccc	tcgtcgtgct	ggatgacatt	agcccaggga	aggagagcct	ggggcccgcac	420
agctcctctg	ggggctcaaga	ggaccccgc	agccagcagt	gggcacgacc	gcgcttcaca	480
cagccctcca	agatgaggcg	ccgggtgatc	gcacggcccg	tggttagctc	cgtgcccgtc	540
aagtgcgtgg	ccagcgggca	ccctcggccc	gacatcacgt	ggatgaagga	cgaccaggcc	600
ttgacgcgcc	cagaggccgc	tgagcccagg	aagaagaagt	ggacactgag	cctgaagaac	660
ctgcccgcgg	aggacagcgg	caaatacacc	tgccgcgtgt	cgaaccgcgc	gggcgccatc	720
aacgccacct	acaagggtgga	tgtgatccag	cggacccggt	ccaagcccgt	gctcacaggc	780
acgcaccccg	tgaacacgac	ggtggacttc	ggggggacca	cgctcttcca	gtgcaagggtg	840
cgcagcgacg	tgaagccggt	gatccagtg	ctgaagcgcg	tggagtacgg	cgccgagggc	900
cgccacaact	ccaccatcga	tgtgggcggc	cagaagtttg	tggtgctgct	cacgggtgac	960
gtgtggtcgc	ggcccgcagc	ctcctacctc	aataagccgc	tccc		1004

<210> 25  
 <211> 478  
 <212> DNA  
 <213> Mouse

<400> 25						
agaaaaaggc	ctcgctaaag	caacaaacct	gatcattttc	aagaaccata	ggactgaggt	60
gaagccatga	agttcttgct	gatctcccta	gccctatggc	tgggcacagt	gggcacacgt	120
gggacagagc	ccgaactcag	cgagacccag	cgcaggagcc	tacaggtggc	tctggaggag	180
ttccacaaac	accacactgt	gcagttggcc	ttccaagaga	tcggtgtgga	cagagctgaa	240
gaagtgtctc	tctcagctgg	cacctttgtg	aggttggaa	ttaagctcca	gcagaccaac	300

tgccccaaga	aggactggaa	aaagccggag	tgcacaatca	aaccaaacgg	ggcggaaatg	360
cctggcctgc	attaaaatgg	acccaaggg	taaaattcta	ggccggatag	tccactgccc	420
aattctgaag	caagggcctc	aggatcctca	ggagttgcaa	tgcattaaga	tagcacag	478

<210> 26  
 <211> 545  
 <212> DNA  
 <213> Mouse

<400> 26						
aggggaacaac	tgccagggag	ctgttccagg	gaccacacag	aaaaaggcct	cgctaaagca	60
acaaacctga	tcattttcaa	gaaccatagg	actgaggtga	agccatgaag	ttcttgctga	120
tctccctagc	cctatggctg	ggcacagtgg	gcacacgtgg	gacagagccc	gaactcagcg	180
agaccacgcg	caggagccta	caggtggctc	tggaggagtt	ccacaaacac	ccacctgtgc	240
agttggcctt	ccaagagatc	ggtgtggaca	gagctgaaga	agtgtctctt	tcagctggca	300
cctttgtgag	gttggaattt	aagctccagc	agaccaactg	ccccaagaag	gactggaaaa	360
agccggagtg	cacaatcaaa	ccaaacggga	gaaggcggaa	atgcctggcc	tgcattaaaa	420
tggaccccaa	gggtaaaatt	ctaggccgga	tagtccactg	cccaattctg	aagcaagggc	480
ctcaggatcc	tcaggagttg	caatgcatta	agatagcaca	ggctggcgaa	gacccccacg	540
gctac						545

<210> 27  
 <211> 2213  
 <212> DNA  
 <213> Mouse

<400> 27						
gttgcaggcg	ctcggagtca	gcatggaaag	tctctgcggg	gtcctgggat	ttctgctgct	60
ggctgcagga	ctgcctctcc	aggctgccaa	gcgatttcgt	gatgtgctgg	gccatgaaca	120
gtatcccaat	cacatgagag	agcacaacca	attacgtggc	tggctctcgg	atgaaaatga	180
atgggatgaa	cacctgtatc	cagtgtggag	gaggggagac	ggcaggtgga	aggactcctg	240
ggaaggaggc	cgtgtgcagg	cagtcctgac	cagtgactca	ccggctctgg	tgggttccaa	300
tatcaccttt	gtggtgaacc	tgggtgtccc	cagatgccag	aaggaagatg	ctaattggcaa	360
tatcgtctat	gagaagaact	gcaggaatga	tttgggactg	acctctgacc	tgcattgtcta	420
caactggact	gcaggggcag	atgatggtga	ctgggaagat	ggcaccagcc	gaagccagca	480
tctcaggttc	ccggacagga	ggcccttccc	tcgcccccat	ggatggaaga	aatggagctt	540
tgtctacgtc	tttcacacac	ttggccagta	tttccaaaaa	ctgggtcggg	gttcagcacg	600
ggttttctata	aacacagtca	acttgacagc	tggccctcag	gtcatggaag	tgactgtctt	660
tcgaagatac	ggccggggcat	acattcccac	ctcgaagggtg	aaagatgtgt	atgtgataac	720
agatcagatc	cctgtattcg	tgaccatgtc	ccagaagaat	gacaggaact	tgtctgatga	780
gatcttccctc	agagacctcc	ccatcgtctt	cgatgtcctc	attcatgatc	ccagccactt	840
cctcaacgac	tctgccattt	cctacaagtg	gaactttggg	gacaacactg	gcctgtttgt	900
ctccaacaat	cacactttga	atcacactta	tgtgtctcaat	ggaaccttca	accttaacct	960
caccgtgcaa	actgcagtgc	ccggggccatg	ccctccccct	tcgccttcga	ctccgcctcc	1020
accttcaact	ccgcccctcac	ctccgcctcc	acctctgccc	acattatcaa	cacctagccc	1080
ctctttaatg	cctactgggt	acaaatccat	ggagctgagt	gacatttcca	atgaaaactg	1140
ccgaataaac	agatatggct	acttcagagc	caccatcaca	attgtagagg	ggatcctgga	1200
agtcagcatc	atgcagatag	cagatgtccc	catgccacac	ccgcagcctg	ccaactccct	1260
gatggacttc	actgtgacct	gcaaaggggc	cacccccatg	gaagcctgta	cgatcatctc	1320
cgacccacc	tgccagatcg	cccagaaccg	ggtctgcagc	cctgtggctg	tggatgggct	1380
gtgctgtctg	tctgtgagaa	gagccttcaa	tgggtctggc	acctactgtg	tgaatttcac	1440
tctgggagat	gatgcaagcc	tggccctcac	cagcaccttg	atctctatcc	ctggcaaaga	1500
cccagactcc	cctctgagag	cagtgaatgg	tgtcctgatc	tccattggct	gcctggctgt	1560
gcttgtcacc	atggtttacca	tcttgtctga	caaaaaacac	aaggcgtaca	agccaatagg	1620
aaactgcccc	aggaacacgg	tcaagggcaa	aggcctgagt	gttctcctca	gccacgcgaa	1680
agccccgttc	ttccgaggag	accaggagaa	ggatccattg	ctccaggaca	agccaaggac	1740
actctaagtc	tttggccttc	cctctgacca	ggaaccctct	cttctgtgca	tgtatgtgag	1800

ctgtgcagaa	gstatgtggct	gggaactggt	gttctctaag	gattattgta	aaatgtatat	1860
cgtggccttag	ggagtgtggg	taaataagcat	tttagagaag	acatgggaag	acttagtggt	1920
tcttcccatc	tgtattgtgg	tttttact	gttcgtggg	tggacacgct	gtgtctgaag	1980
gggaggtggg	gtcactgcta	cttaaggtcc	taggttaact	gggggagata	ccacagatgc	2040
ctcagctttc	cacataacat	gggcatgaac	ccagctaact	accacctgaa	ggccatgctt	2100
catctgcctt	ccaactcact	gagcatgcct	gagctcctga	caaaattata	atgggcccgg	2160
gctttgtgta	tgggtgcgtgt	gtgtacatat	tctactcatt	aaaaaggtag	tct	2213

<210> 28  
 <211> 412  
 <212> DNA  
 <213> Mouse

<400> 28						
gcgaggtccc	gcctcgccgc	ccctcgagcg	ccccagctt	ctctgctggc	cggaacctgc	60
accccgaaac	aggaagcacc	tggcgggcggg	cgcgggatgg	ctgggcccag	ctgggggtctc	120
cctcggtctg	acggtttcat	ccttaccgag	cgcttgggca	gtggcacgta	cgccacgggtg	180
tacaaggcct	acgccaagaa	ggatactcgg	gaagtggtag	ccataaaatg	cgtggccaag	240
aagagtctca	acaaggcgctc	agtggaaaac	ctctgactg	agattgagat	cctcaagggc	300
attcggcacc	cccatatcgt	gcagctgaaa	gacttccagt	gggacaatga	caatatctac	360
ctcatcatgg	agttctgtgc	agggggtgac	ctgtctcgct	tcattcatac	cc	412

<210> 29  
 <211> 437  
 <212> DNA  
 <213> Mouse

<400> 29						
cacagtcttg	tttctggtgg	ctttgatcac	tgtggggatg	aacactacct	atgtagtgtc	60
ttgccccaaa	gaatttgaaa	aacctggagc	ttgtcccaag	ccttcaccag	aaagtgttgg	120
aatttgtgtt	gatcaatgct	caggagatgg	atcctgcccc	ggcaacatga	agtgtctgtg	180
caatagctgt	ggtcatgtct	gcaaaactcc	tgtcttttaa	atggttgaca	gccatgtgga	240
agatggattc	aattcttcata	aacatgaatg	atggccagcc	ccagaagatt	tcttctgaat	300
tcacagagcc	tgtgcttggc	tacttcctag	ccctagaatt	gcattcttgg	acaaggaaga	360
tctatattgt	ggtgacaatg	ccctaatatg	tctgtgtcca	aaataaacta	cccttagcat	420
tcaaaaaaaaa	aaaaaaaa					437

<210> 30  
 <211> 126  
 <212> PRT  
 <213> Mouse

<220>  
 <221> UNSURE  
 <222> (123)...(123)

<400> 30																	
Val	Asp	Phe	Gly	Thr	Thr	Ser	Phe	Gln	Cys	Lys	Val	Arg	Ser	Asp			
1				5				10					15				
Val	Lys	Pro	Val	Ile	Gln	Trp	Leu	Lys	Arg	Val	Glu	Tyr	Gly	Ser	Glu		
			20				25				30						
Gly	Arg	His	Asn	Ser	Thr	Ile	Asp	Val	Gly	Gly	Gln	Lys	Phe	Val	Val		
			35			40				45							
Leu	Pro	Thr	Gly	Asp	Val	Trp	Ser	Arg	Pro	Asp	Gly	Ser	Tyr	Leu	Asn		
	50				55				60								
Lys	Leu	Leu	Ile	Ser	Arg	Ala	Arg	Gln	Asp	Asp	Ala	Gly	Met	Tyr	Ile		
65					70				75						80		

Cys	Leu	Gly	Ala	Asn	Thr	Met	Gly	Tyr	Ser	Phe	Arg	Ser	Ala	Phe	Leu
				85					90					95	
Thr	Val	Leu	Pro	Asp	Pro	Lys	Pro	Pro	Gly	Pro	Pro	Met	Ala	Ser	Ser
			100					105					110		
Ser	Ser	Ser	Thr	Ser	Leu	Pro	Trp	Pro	Val	Xaa	Gly	Ile	Pro		
		115					120					125			

<210> 31  
 <211> 529  
 <212> PRT  
 <213> Mouse

<400> 31

Met	Thr	Arg	Ser	Pro	Ala	Leu	Leu	Leu	Leu	Leu	Gly	Ala	Leu	Pro
1				5				10					15	
Ser	Ala	Glu	Ala	Ala	Arg	Gly	Pro	Pro	Arg	Met	Ala	Asp	Lys	Val
			20					25				30		Val
Pro	Arg	Gln	Val	Ala	Arg	Leu	Gly	Arg	Thr	Val	Arg	Leu	Gln	Cys
		35				40					45			Pro
Val	Glu	Gly	Asp	Pro	Pro	Pro	Leu	Thr	Met	Trp	Thr	Lys	Asp	Gly
	50					55					60			Arg
Thr	Ile	His	Ser	Gly	Trp	Ser	Arg	Phe	Arg	Val	Leu	Pro	Gln	Gly
65				70						75				80
Lys	Val	Lys	Glu	Val	Glu	Ala	Glu	Asp	Ala	Gly	Val	Tyr	Val	Cys
			85					90					95	Lys
Ala	Thr	Asn	Gly	Phe	Gly	Ser	Leu	Ser	Val	Asn	Tyr	Thr	Leu	Ile
		100						105					110	Ile
Met	Asp	Asp	Ile	Ser	Pro	Gly	Lys	Glu	Ser	Pro	Gly	Pro	Gly	Ser
	115					120						125		
Ser	Gly	Gly	Gln	Glu	Asp	Pro	Ala	Ser	Gln	Gln	Trp	Ala	Arg	Pro
	130					135					140			Arg
Phe	Thr	Gln	Pro	Ser	Lys	Met	Arg	Arg	Arg	Val	Ile	Ala	Arg	Pro
145				150						155				Val
Gly	Ser	Ser	Val	Arg	Leu	Lys	Cys	Val	Ala	Ser	Gly	His	Pro	Arg
			165					170					175	Pro
Asp	Ile	Met	Trp	Met	Lys	Asp	Asp	Gln	Thr	Leu	Thr	His	Leu	Glu
	180							185					190	Ala
Ser	Glu	His	Arg	Lys	Lys	Lys	Trp	Thr	Leu	Ser	Leu	Lys	Asn	Leu
	195						200					205		Lys
Pro	Glu	Asp	Ser	Gly	Lys	Tyr	Thr	Cys	Arg	Val	Ser	Asn	Lys	Ala
	210					215					220			Gly
Ala	Ile	Asn	Ala	Thr	Tyr	Lys	Val	Asp	Val	Ile	Gln	Arg	Thr	Arg
225				230						235				Ser
Lys	Pro	Val	Leu	Thr	Gly	Thr	His	Pro	Val	Asn	Thr	Thr	Val	Asp
			245						250					Phe
Gly	Gly	Thr	Thr	Ser	Phe	Gln	Cys	Lys	Val	Arg	Ser	Asp	Val	Lys
		260						265					270	Pro
Val	Ile	Gln	Trp	Leu	Lys	Arg	Val	Glu	Tyr	Gly	Ser	Glu	Gly	Arg
	275						280					285		His
Asn	Ser	Thr	Ile	Asp	Val	Gly	Gln	Lys	Phe	Val	Val	Leu	Pro	Thr
	290					295				300				
Gly	Asp	Val	Trp	Ser	Arg	Pro	Asp	Gly	Ser	Tyr	Leu	Asn	Lys	Leu
305				310						315				Leu
Ile	Ser	Arg	Ala	Arg	Gln	Asp	Asp	Ala	Gly	Met	Tyr	Ile	Cys	Leu
			325						330				335	Gly
Ala	Asn	Thr	Met	Gly	Tyr	Ser	Phe	Arg	Ser	Ala	Phe	Leu	Thr	Val
			340					345					350	Leu



Pro Asp Pro Lys Pro Pro Gly Pro Pro Met Ala Ser Ser Ser Ser Ser  
 355 360 365  
 Thr Ser Leu Pro Trp Pro Val Val Ile Gly Ile Pro Ala Gly Ala Val  
 370 375 380  
 Phe Ile Leu Gly Thr Val Leu Leu Trp Leu Cys Gln Thr Lys Lys Lys  
 385 390 395 400  
 Pro Cys Ala Pro Ala Ser Thr Leu Pro Val Pro Gly His Arg Pro Pro  
 405 410 415  
 Gly Thr Ser Arg Glu Arg Ser Gly Asp Lys Asp Leu Pro Ser Leu Ala  
 420 425 430  
 Val Gly Ile Cys Glu Glu His Gly Ser Ala Met Ala Pro Gln His Ile  
 435 440 445  
 Leu Ala Ser Gly Ser Thr Ala Gly Pro Lys Leu Tyr Pro Lys Leu Tyr  
 450 455 460  
 Thr Asp Val His Thr His Thr His Thr Cys Thr His Thr Leu  
 465 470 475 480  
 Ser Cys Gly Gly Gln Gly Ser Ser Thr Pro Ala Cys Pro Leu Ser Val  
 485 490 495  
 Leu Asn Thr Ala Asn Leu Gln Ala Leu Cys Pro Glu Val Gly Ile Trp  
 500 505 510  
 Gly Pro Arg Gln Gln Val Gly Arg Ile Glu Asn Asn Gly Gly Arg Val  
 515 520 525  
 Ser

<210> 32  
 <211> 439  
 <212> PRT  
 <213> Mouse

<400> 32  
 Met Thr Arg Ser Pro Ala Leu Leu Leu Leu Leu Gly Ala Leu Pro  
 1 5 10 15  
 Ser Ala Glu Ala Ala Arg Asp Asp Ile Ser Pro Gly Lys Glu Ser Pro  
 20 25 30  
 Gly Pro Gly Gly Ser Ser Gly Gly Gln Glu Asp Pro Ala Ser Gln Gln  
 35 40 45  
 Trp Ala Arg Pro Arg Phe Thr Gln Pro Ser Lys Met Arg Arg Arg Val  
 50 55 60  
 Ile Ala Arg Pro Val Gly Ser Ser Val Arg Leu Lys Cys Val Ala Ser  
 65 70 75 80  
 Gly His Pro Arg Pro Asp Ile Met Trp Met Lys Asp Asp Gln Thr Leu  
 85 90 95  
 Thr His Leu Glu Ala Ser Glu His Arg Lys Lys Lys Trp Thr Leu Ser  
 100 105 110  
 Leu Lys Asn Leu Lys Pro Glu Asp Ser Gly Lys Tyr Thr Cys Arg Val  
 115 120 125  
 Ser Asn Lys Ala Gly Ala Ile Asn Ala Thr Tyr Lys Val Asp Val Ile  
 130 135 140  
 Gln Arg Thr Arg Ser Lys Pro Val Leu Thr Gly Thr His Pro Val Asn  
 145 150 155 160  
 Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys Lys Val Arg  
 165 170 175  
 Ser Asp Val Lys Pro Val Ile Gln Trp Leu Lys Arg Val Glu Tyr Gly  
 180 185 190  
 Ser Glu Gly Arg His Asn Ser Thr Ile Asp Val Gly Gly Gln Lys Phe  
 195 200 205

Val	Val	Leu	Pro	Thr	Gly	Asp	Val	Trp	Ser	Arg	Pro	Asp	Gly	Ser	Tyr
210						215					220				
Leu	Asn	Lys	Leu	Leu	Ile	Ser	Arg	Ala	Arg	Gln	Asp	Asp	Ala	Gly	Met
225					230					235					240
Tyr	Ile	Cys	Leu	Gly	Ala	Asn	Thr	Met	Gly	Tyr	Ser	Phe	Arg	Ser	Ala
				245					250					255	
Phe	Leu	Thr	Val	Leu	Pro	Asp	Pro	Lys	Pro	Pro	Pro	Gly	Pro	Pro	Met
			260					265					270		
Ala	Ser	Ser	Ser	Ser	Ser	Thr	Ser	Leu	Pro	Trp	Pro	Val	Val	Ile	Gly
		275					280					285			
Ile	Pro	Ala	Gly	Ala	Val	Phe	Ile	Leu	Gly	Thr	Val	Leu	Leu	Trp	Leu
	290					295					300				
Cys	Gln	Thr	Lys	Lys	Lys	Pro	Cys	Ala	Pro	Ala	Ser	Thr	Leu	Pro	Val
305					310					315					320
Pro	Gly	His	Arg	Pro	Pro	Gly	Thr	Ser	Arg	Glu	Arg	Ser	Gly	Asp	Lys
				325					330					335	
Asp	Leu	Pro	Ser	Leu	Ala	Val	Gly	Ile	Cys	Glu	Glu	His	Gly	Ser	Ala
			340					345					350		
Met	Ala	Pro	Gln	His	Ile	Leu	Ala	Ser	Gly	Ser	Thr	Ala	Gly	Pro	Lys
	355						360					365			
Leu	Tyr	Pro	Lys	Leu	Tyr	Thr	Asp	Val	His	Thr	His	Thr	His	Thr	His
	370					375					380				
Thr	Cys	Thr	His	Thr	Leu	Ser	Cys	Gly	Gly	Gln	Gly	Ser	Ser	Thr	Pro
385					390					395					400
Ala	Cys	Pro	Leu	Ser	Val	Leu	Asn	Thr	Ala	Asn	Leu	Gln	Ala	Leu	Cys
				405					410					415	
Pro	Glu	Val	Gly	Ile	Trp	Gly	Pro	Arg	Gln	Gln	Val	Gly	Arg	Ile	Glu
			420					425					430		
Asn	Asn	Gly	Gly	Arg	Val	Ser									
		435													

<210> 33  
 <211> 322  
 <212> PRT  
 <213> Human

<400> 33

Arg	Arg	Ala	Pro	Cys	Cys	Cys	Ser	Cys	Cys	Arg	Arg	Cys	Cys	Trp	Gly
1				5				10						15	
Pro	Ser	His	Arg	Pro	Pro	Pro	Pro	Glu	Ala	Pro	Gln	Arg	Trp	Arg	Thr
			20					25					30		
Arg	Trp	Ser	His	Gly	Arg	Trp	Pro	Ala	Gly	Pro	His	Cys	Ala	Ala	Ala
		35					40					45			
Val	Pro	Val	Glu	Gly	Asp	Pro	Pro	Pro	Leu	Thr	Met	Trp	Thr	Lys	Asp
	50					55					60				
Gly	Arg	Thr	Ile	His	Ser	Gly	Trp	Ser	Arg	Phe	Arg	Val	Leu	Pro	Gln
65				70						75					80
Gly	Leu	Lys	Val	Lys	Gln	Val	Glu	Arg	Glu	Asp	Ala	Gly	Val	Tyr	Val
				85					90					95	
Cys	Lys	Ala	Thr	Asn	Gly	Phe	Gly	Ser	Leu	Ser	Val	Asn	Tyr	Thr	Leu
			100					105					110		
Val	Val	Leu	Asp	Asp	Ile	Ser	Pro	Gly	Lys	Glu	Ser	Leu	Gly	Pro	Asp
		115					120					125			
Ser	Ser	Ser	Gly	Gly	Gln	Glu	Asp	Pro	Ala	Ser	Gln	Gln	Trp	Ala	Arg
		130				135						140			
Pro	Arg	Phe	Thr	Gln	Pro	Ser	Lys	Met	Arg	Arg	Arg	Val	Ile	Ala	Arg
145					150					155					160

Pro	Val	Gly	Ser	Ser	Val	Arg	Leu	Lys	Cys	Val	Ala	Ser	Gly	His	Pro
				165					170					175	
Arg	Pro	Asp	Ile	Thr	Trp	Met	Lys	Asp	Asp	Gln	Ala	Leu	Thr	Arg	Pro
			180					185						190	
Glu	Ala	Ala	Glu	Pro	Arg	Lys	Lys	Lys	Trp	Thr	Leu	Ser	Leu	Lys	Asn
			195				200					205			
Leu	Arg	Pro	Glu	Asp	Ser	Gly	Lys	Tyr	Thr	Cys	Arg	Val	Ser	Asn	Arg
			210			215				220					
Ala	Gly	Ala	Ile	Asn	Ala	Thr	Tyr	Lys	Val	Asp	Val	Ile	Gln	Arg	Thr
			225		230					235					240
Arg	Ser	Lys	Pro	Val	Leu	Thr	Gly	Thr	His	Pro	Val	Asn	Thr	Thr	Val
				245					250					255	
Asp	Phe	Gly	Gly	Thr	Thr	Ser	Phe	Gln	Cys	Lys	Val	Arg	Ser	Asp	Val
			260					265					270		
Lys	Pro	Val	Ile	Gln	Trp	Leu	Lys	Arg	Val	Glu	Tyr	Gly	Ala	Glu	Gly
			275				280					285			
Arg	His	Asn	Ser	Thr	Ile	Asp	Val	Gly	Gly	Gln	Lys	Phe	Val	Val	Leu
			290			295					300				
Pro	Thr	Gly	Asp	Val	Trp	Ser	Arg	Pro	Asp	Gly	Ser	Tyr	Leu	Asn	Lys
			305		310					315					320
Pro	Leu														

<210> 34  
 <211> 102  
 <212> PRT  
 <213> Mouse

<400> 34															
Met	Lys	Phe	Leu	Ile	Ser	Leu	Ala	Leu	Trp	Leu	Gly	Thr	Val	Gly	
1			5					10					15		
Thr	Arg	Gly	Thr	Glu	Pro	Glu	Leu	Ser	Glu	Thr	Gln	Arg	Arg	Ser	Leu
			20				25					30			
Gln	Val	Ala	Leu	Glu	Glu	Phe	His	Lys	His	Pro	Pro	Val	Gln	Leu	Ala
		35				40					45				
Phe	Gln	Glu	Ile	Gly	Val	Asp	Arg	Ala	Glu	Glu	Val	Leu	Phe	Ser	Ala
		50			55					60					
Gly	Thr	Phe	Val	Arg	Leu	Glu	Phe	Lys	Leu	Gln	Gln	Thr	Asn	Cys	Pro
				70					75					80	
Lys	Lys	Asp	Trp	Lys	Lys	Pro	Glu	Cys	Thr	Ile	Lys	Pro	Asn	Gly	Ala
				85				90						95	
Glu	Met	Pro	Gly	Leu	His										
			100												

<210> 35  
 <211> 147  
 <212> PRT  
 <213> Mouse

<400> 35															
Met	Lys	Phe	Leu	Ile	Ser	Leu	Ala	Leu	Trp	Leu	Gly	Thr	Val	Gly	
1			5					10					15		
Thr	Arg	Gly	Thr	Glu	Pro	Glu	Leu	Ser	Glu	Thr	Gln	Arg	Arg	Ser	Leu
			20				25					30			
Gln	Val	Ala	Leu	Glu	Glu	Phe	His	Lys	His	Pro	Pro	Val	Gln	Leu	Ala
		35				40					45				
Phe	Gln	Glu	Ile	Gly	Val	Asp	Arg	Ala	Glu	Glu	Val	Leu	Phe	Ser	Ala

50		55		60
Gly Thr Phe Val Arg Leu	Glu Phe Lys Leu Gln	Gln Thr Asn Cys Pro		
65	70	75	80	
Lys Lys Asp Trp Lys Lys Pro	Glu Cys Thr Ile Lys Pro	Asn Gly Arg		
	85	90	95	
Arg Arg Lys Cys Leu Ala Cys	Ile Lys Met Asp Pro Lys	Gly Lys Ile		
	100	105	110	
Leu Gly Arg Ile Val His Cys	Pro Ile Leu Lys Gln Gly	Pro Gln Asp		
	115	120	125	
Pro Gln Glu Leu Gln Cys Ile	Lys Ile Ala Gln Ala Gly	Glu Asp Pro		
	130	135	140	
His Gly Tyr				
145				

<210> 36  
 <211> 574  
 <212> PRT  
 <213> Mouse

<400> 36
Met Glu Ser Leu Cys Gly Val Leu Gly Phe Leu Leu Leu Ala Ala Gly
1 5 10 15
Leu Pro Leu Gln Ala Ala Lys Arg Phe Arg Asp Val Leu Gly His Glu
20 25 30
Gln Tyr Pro Asn His Met Arg Glu His Asn Gln Leu Arg Gly Trp Ser
35 40 45
Ser Asp Glu Asn Glu Trp Asp Glu His Leu Tyr Pro Val Trp Arg Arg
50 55 60
Gly Asp Gly Arg Trp Lys Asp Ser Trp Glu Gly Arg Val Gln Ala
65 70 75 80
Val Leu Thr Ser Asp Ser Pro Ala Leu Val Gly Ser Asn Ile Thr Phe
85 90 95
Val Val Asn Leu Val Phe Pro Arg Cys Gln Lys Glu Asp Ala Asn Gly
100 105 110
Asn Ile Val Tyr Glu Lys Asn Cys Arg Asn Asp Leu Gly Leu Thr Ser
115 120 125
Asp Leu His Val Tyr Asn Trp Thr Ala Gly Ala Asp Asp Gly Asp Trp
130 135 140
Glu Asp Gly Thr Ser Arg Ser Gln His Leu Arg Phe Pro Asp Arg Arg
145 150 155 160
Pro Phe Pro Arg Pro His Gly Trp Lys Lys Trp Ser Phe Val Tyr Val
165 170 175
Phe His Thr Leu Gly Gln Tyr Phe Gln Lys Leu Gly Arg Cys Ser Ala
180 185 190
Arg Val Ser Ile Asn Thr Val Asn Leu Thr Ala Gly Pro Gln Val Met
195 200 205
Glu Val Thr Val Phe Arg Arg Tyr Gly Arg Ala Tyr Ile Pro Ile Ser
210 215 220
Lys Val Lys Asp Val Tyr Val Ile Thr Asp Gln Ile Pro Val Phe Val
225 230 235 240
Thr Met Ser Gln Lys Asn Asp Arg Asn Leu Ser Asp Glu Ile Phe Leu
245 250 255
Arg Asp Leu Pro Ile Val Phe Asp Val Leu Ile His Asp Pro Ser His
260 265 270
Phe Leu Asn Asp Ser Ala Ile Ser Tyr Lys Trp Asn Phe Gly Asp Asn
275 280 285
Thr Gly Leu Phe Val Ser Asn Asn His Thr Leu Asn His Thr Tyr Val

290		295		300
Leu Asn Gly Thr Phe Asn Leu Asn Leu Thr Val Gln Thr Ala Val Pro				
305		310		315
Gly Pro Cys Pro Pro Pro Ser Pro Ser Thr Pro Pro Pro Pro Ser Thr				
	325		330	335
Pro Pro Ser Pro Pro Pro Ser Pro Leu Pro Thr Leu Ser Thr Pro Ser				
	340		345	350
Pro Ser Leu Met Pro Thr Gly Tyr Lys Ser Met Glu Leu Ser Asp Ile				
	355		360	365
Ser Asn Glu Asn Cys Arg Ile Asn Arg Tyr Gly Tyr Phe Arg Ala Thr				
	370		375	380
Ile Thr Ile Val Glu Gly Ile Leu Glu Val Ser Ile Met Gln Ile Ala				
385		390		395
Asp Val Pro Met Pro Thr Pro Gln Pro Ala Asn Ser Leu Met Asp Phe				
	405		410	415
Thr Val Thr Cys Lys Gly Ala Thr Pro Met Glu Ala Cys Thr Ile Ile				
	420		425	430
Ser Asp Pro Thr Cys Gln Ile Ala Gln Asn Arg Val Cys Ser Pro Val				
	435		440	445
Ala Val Asp Gly Leu Cys Leu Leu Ser Val Arg Arg Ala Phe Asn Gly				
	450		455	460
Ser Gly Thr Tyr Cys Val Asn Phe Thr Leu Gly Asp Asp Ala Ser Leu				
465		470		475
Ala Leu Thr Ser Thr Leu Ile Ser Ile Pro Gly Lys Asp Pro Asp Ser				
	485		490	495
Pro Leu Arg Ala Val Asn Gly Val Leu Ile Ser Ile Gly Cys Leu Ala				
	500		505	510
Val Leu Val Thr Met Val Thr Ile Leu Leu Tyr Lys Lys His Lys Ala				
	515		520	525
Tyr Lys Pro Ile Gly Asn Cys Pro Arg Asn Thr Val Lys Gly Lys Gly				
	530		535	540
Leu Ser Val Leu Leu Ser His Ala Lys Ala Pro Phe Phe Arg Gly Asp				
545		550		555
Gln Glu Lys Asp Pro Leu Leu Gln Asp Lys Pro Arg Thr Leu				
	565		570	

<210> 37  
 <211> 137  
 <212> PRT  
 <213> Mouse

<400> 37
Ala Glu Ser Arg Leu Ala Ala Pro Arg Ala Pro Pro Ala Ser Leu Leu
1 5 10 15
Ala Gly Thr Cys Thr Pro Asn Gln Glu Ala Pro Gly Gly Gly Arg Gly
20 25 30
Met Ala Gly Pro Ser Trp Gly Leu Pro Arg Leu Asp Gly Phe Ile Leu
35 40 45
Thr Glu Arg Leu Gly Ser Gly Thr Tyr Ala Thr Val Tyr Lys Ala Tyr
50 55 60
Ala Lys Lys Asp Thr Arg Glu Val Val Ala Ile Lys Cys Val Ala Lys
65 70 75 80
Lys Ser Leu Asn Lys Ala Ser Val Glu Asn Leu Leu Thr Glu Ile Glu
85 90 95
Ile Leu Lys Gly Ile Arg His Pro His Ile Val Gln Leu Lys Asp Phe
100 105 110
Gln Trp Asp Asn Asp Asn Ile Tyr Leu Ile Met Glu Phe Cys Ala Gly

115 120 125  
 Gly Asp Leu Ser Arg Phe Ile His Thr  
 130 135

<210> 38  
 <211> 72  
 <212> PRT  
 <213> Mouse

<400> 38  
 Thr Val Leu Phe Leu Val Ala Leu Ile Thr Val Gly Met Asn Thr Thr  
 1 5 10 15  
 Tyr Val Val Ser Cys Pro Lys Glu Phe Glu Lys Pro Gly Ala Cys Pro  
 20 25 30  
 Lys Pro Ser Pro Glu Ser Val Gly Ile Cys Val Asp Gln Cys Ser Gly  
 35 40 45  
 Asp Gly Ser Cys Pro Gly Asn Met Lys Cys Cys Ser Asn Ser Cys Gly  
 50 55 60  
 His Val Cys Lys Thr Pro Val Phe  
 65 70

<210> 39  
 <211> 1587  
 <212> DNA  
 <213> Mouse

<400> 39  
 gcggcgcggg tagagggcgg tgggcggcga gcggcgatgg gccgcgcctg gggcttgctc 60  
 gttggactcc tgggcgtcgt gtggctgctg cgcttgggcc acggcgagga gcggcgggccg 120  
 gagacagcgg cacagcgtg cttctgccag gttagtgggt acctggacga ctgtacctgt 180  
 gatgtcgaga ccatcgataa gtttaataac tacagacttt tcccaagact acaaaagctt 240  
 cttgaaaagt actactttag atattacaag gtgaacttga agaagccttg tcctttctgg 300  
 aatgacatca accagtgtgg aagaagagac tgtgccgtca aaccctgcca ttctgatgaa 360  
 gttcctgatg gaattaagtc tgcgagctac aagtattctg aggaagccaa ccgcattgaa 420  
 gaatgtgagc aagctgagcg acttggagcc gtggatgagt ctctgagtga ggagaccag 480  
 aaagctgtac ttcagtggac caagcatgat gattcgtcag acagcttctg cgaaattgac 540  
 gatatacagt ccccgatgac tgagtatgtg gacttactcc ttaaccctga gcgctacaca 600  
 ggctacaagg ggccagacgc ttggaggata tggagtgtca tctatgaaga aaactgtttt 660  
 aagccacaga caattcaaag gcctttggct tctgggcgag gaaaaagtaa agagaacaca 720  
 ttttacaact ggctagaagg cctctgtgta gaaaagagag cattctacag acttatatct 780  
 ggctgcacg caagcattaa tgtgcatttg agtgcaagg atcttttaca agatacttgg 840  
 ctggaaaaga aatgggggtca caatgtcaca gagttccagc agcgccttga tgggattctg 900  
 actgaaggag aaggcccacg aaggctgagg aacttgtact tcctgtacct gatagagtta 960  
 agggctctct ccaaagtgt tccatttttt gagcgtccag attttcagct cttcactggg 1020  
 aataaagttc aggatgcaga aaacaaagcg ttacttctgg agatacttca tgaaatcaag 1080  
 tcatttcctt tgcacttcga tgagaattct ttttttgctg gggataaaaa cgaagcacat 1140  
 aaactaaagg aggacttccg gctacacttt aggaacattt caagaatcat ggactgtgtt 1200  
 ggctgcttca agtgccgcct gtggggcaag cttcagacgc aggggctggg cactgctctg 1260  
 aagatcttgt tttccgaaaa actgatcgca aatatgccg aaagcggacc aagttatgag 1320  
 ttccagctaa ccagacaaga aatagatcca ctgtttaatg catttgaag gatttccaca 1380  
 agtgtgagag aactagagaa cttcaggcac ttgttacaga atgttccactg aggaggacgg 1440  
 ttggaatgtg cctgtttctg cacaggggaa tttgaagggc aaaatctctt ttagcccat 1500  
 ggttgcaatg tactgtccta agcccaacgt ttatataaac ctgcttttgt taaagaaaaa 1560  
 aaaaaaaaaa aaaaaaaaaa aaaaaaa 1587

<210> 40  
 <211> 2435

<212> DNA  
<213> Mouse

<400> 40

ggaggaggct	cggcgccccc	ctcctggccc	cctccccccc	ggtgctggct	ccatgtctgt	60
gtgaccggcc	gcaggggtag	gattcaggcc	cgacgcgggg	cgggcgggcg	acggcggctg	120
aggtgagagg	cggcgggcggc	ggcgcgggctc	gggcaccggc	ccccagcgg	gaggatgaag	180
cggcggaacg	ccgactgcag	taagctccgc	cgccccctga	agcggaaaccg	gatcaccgag	240
ggtatctacg	gcagtacatt	tttatacctg	aaattccttg	tagtgtgggc	acttgtcctc	300
cttgccgact	ttgtcctgga	gttccgattt	gaatacctgt	ggccgttctg	gcttttcctc	360
agaagcgtct	atgattcctt	cagataccaa	ggactggcct	tctcagtatt	ttttgtttgt	420
gtagcattca	cttcaaatat	catatgtctc	ctcttcattc	ccatacaatg	gctttttttc	480
gctgctagca	catatgtatg	ggtccagtac	gtatggcaca	cagaaagggg	agtgtgtttg	540
cctacagtgt	cactctggat	cctctttgtt	tatattgaag	cagcaattag	atttaaagat	600
ctgaaaaact	ttcatgtaga	cctttgtcga	ccgtttgctg	ctcactgcat	tggataccct	660
gtggtgactt	tgggcttttg	cttcaaaagt	tatgtgagct	acaaaatgcg	gttaaggaag	720
cagaaggaag	ttcagaagga	gaacgagttt	tacatgcagc	ttcttcagca	ggccctccct	780
ccagagcagc	aaatgttgca	gaagcaggag	aaggaggctg	aggaagcagc	caagggattg	840
ccggacatgg	attcctcgat	ccttatacac	cacaacggag	gcacccagc	caacaaaaaa	900
ctgtccacaa	cgttgccaga	gatagaatat	cgagaaaaag	ggaaagagaa	ggacaaggat	960
gccaagaaac	acaaccttgg	aataaataac	aacaacattc	tacaacctgt	agactctaag	1020
atacaagaga	ttgagtatat	ggaaaaccat	atcaatagta	aaagattaaa	caatgatctt	1080
gtgggaagta	cagaaaatct	cttaaaagag	gactcatgca	ctgcttcctc	aaaaaattac	1140
aaaaatgcc	gtggagttgt	gaactcctcg	cctcgaagtc	acagcgctac	aaatggaagc	1200
attccttcct	cgtctagtaa	aaacgagaag	aagcagaagt	gcaccagcaa	gggcccagat	1260
gcacacaagg	acttaatgga	gaactgtatt	cctaacaacc	agctgagcaa	accagacgcg	1320
ctggtaaggc	tggacaaga	cattaaaaag	ctaaaggctg	acctgcaagc	cagccggcaa	1380
gtggagcaag	agctgcgcag	tcagatcagc	gccctctcaa	gcacagagcg	aggcatccgc	1440
tcagaaatgg	gccagctccg	gcaggagaac	gagctgctgc	agaacaagtt	acacaatgcc	1500
gtgcaaatga	agcaaaaaaga	caagcagaat	atcagccagc	tagagaagaa	gctaaaggct	1560
gagcaggaag	cccgaagctt	tgtagaaaag	cagtaatatg	aggagaaaaa	aaggaagaag	1620
ttagaagaag	ccacagctgc	acgggctggt	gcctttgctg	ctgcatctag	gggagagtgc	1680
acggaaaacct	tacggagtgc	gatcagagag	ctagaagctg	agggcaagaa	gctcacaatg	1740
gacatgaaag	tgaaggagga	gcagatcagg	gaactggaac	tgaaggttca	ggagcttcgg	1800
aagtacaaag	aaaacgagaa	ggacaccgag	gtattgatgt	cagccctctc	cgccatgcaa	1860
gacaaaacgc	aacacctaga	gaacagtctc	agcgcagaga	cgaggatcaa	gctggacctc	1920
ttctctgcac	ttggtgatgc	aaagcggcag	ctggagattg	cccaggggca	aattcttcag	1980
aaagaccagg	aaatcaagga	cctaaaacag	aaaatagctg	aagtcattggc	tgtcatgccc	2040
agcataacat	acagtgtctg	caccagtccc	ctgagccccg	tgtcccccca	ctactcttcc	2100
aagtttgttg	agaccagccc	ctctggactt	gaccctaattg	cctctgtcta	ccagcccttg	2160
aagaagtga	ggccaactgt	gtgctcgccc	aacatttgca	accaggaggc	ttcgaaaagc	2220
agcgtctctg	gcagtcaaga	taaaaaagtt	gatattgtgt	tttgtgggac	tgtatatgtt	2280
gtcatttttta	aaggggggaa	ataacatcca	agtctgatta	gaaccgcca	tcagttgttc	2340
ttggaagttt	ttagaagacc	tcacggactt	tgcagtttat	ttttgttggc	caacacatta	2400
aaccattct	tggatttcaa	gtaaaaaaa	aaaaa			2435

<210> 41  
<211> 1720  
<212> DNA  
<213> Mouse

<400> 41

gtgacgcgca	ggcccaggcg	gaagtgcggg	cggaggatcc	cgagccggat	cccagccgg	60
gcgcggggct	cggggctcgc	aggagcggct	ggctcccgcg	atggcgagcc	tatgggtcgg	120
aaacctgctg	cggctgggct	cggggctcaa	catgtcctgc	ctggcgctgt	cgggtgctgt	180
gctcgcgcag	ctgacaggcg	ccgccaagaa	ttttgaagat	gtgagatgta	aatgcatctg	240
ccctccctat	aaagagaatc	ctgggcacat	ttataataag	aatatatctc	agaaagattg	300

tgtatgcctt	catgtcgtgg	agcccatgcc	tgtacgggga	cctgatgtag	aagcatactg	360
tctacgctgt	gaatgc aaat	acgaagagag	aagctctgtc	acaatcaagg	ttaccattat	420
aatttatctc	tctatttttg	gccttctgct	tctgtacatg	gtatatctta	ccttagttga	480
gcccacctg	aagaggcgcc	tctttggaca	ctcccagctg	ttgcagagcg	atgatgacgt	540
tggggatcac	cagccttttg	caaatgccca	tgatgtgctg	gcccgtcttc	gcagccgagc	600
caatgttcta	aacaagggtg	agtacgctca	gcagcgctgg	aagctccagg	tccaggagca	660
gcgaaagtct	gtcttcgacc	gacacgttgt	cctcagctaa	ctgggaactg	gaatcagggtg	720
actaggaaga	acacgcagac	aactgggaag	aattgtctgg	gtgtccgtgc	gttttaatgc	780
catgtttggt	tttaciaaatc	cttgctggat	ggaggaagac	tccaaactgg	aagcaaacc	840
catgcttgg	attttcctgt	taatataatta	atagagacat	ttttacagca	cacagttcca	900
agtcaaccag	taagtctttt	cctacttgtg	acttttacta	ataaaattaa	gctgcctgtg	960
agttatcttg	aagccccgtg	cctggaacaa	gctctctctt	tcttgccaca	cagttctaac	1020
ttggtgttca	agataaacttc	caggtgtgtt	tttgcttctc	tttcttgtgg	tgggagagag	1080
agggaaaggat	gccttgggag	tgcttgagta	gcttctcaag	tgtcttttcc	agacagactt	1140
atgaataactt	cagacccctct	acttcacact	tgtaaatgtc	ccagtgtagc	tggcttgtca	1200
gcgtgctggc	ctccccactt	gacttttgca	ctgactacat	tacctaagat	tctggtttagc	1260
ctgtggctgc	atttcatgac	cagttggatc	tgaaatgcct	gggggctcct	cacaaaatga	1320
agatttgttt	catgcactgt	gatgtctgac	gcaacatgtt	ctagaacaga	ctggccactct	1380
gctagtttac	actgatacct	aaacacagtc	tcagtgtgtg	tggctctcct	catctctctc	1440
tagtagctct	aaggacttga	acatttagaa	taaagacatt	tctctttaag	cccaagcctc	1500
cctggatgat	tgacgtacaa	atactgatca	gccttttctg	tcttgctgag	aggcagttct	1560
ttggaactgat	gtgggcagct	tgaacaagg	actagagttc	agattgcctc	tctctgagaa	1620
gtctaacagt	tattggataa	ctggcttttt	tcttcctaca	tctcttttgg	aatgtaacaa	1680
taaaataaatt	tacaaaaacc	aaaaaaaaaa	aaaaaaaaaa			1720

```
<210> 42
<211> 1008
<212> DNA
<213> Mouse
```

<400> 42						
gggaaaagca	agatcttgca	caaggtcccc	tccggctggc	tgctggcaaa	ggaaaggtgc	60
catgggacct	ctccaccagt	ttctcctgct	gctgatcaca	gccctgtccc	aagccctcaa	120
caccacggtg	ctgcagggca	tggccggcca	gtccttgagg	gtgtcatgta	cttatgacgc	180
cttgaagcac	tgggggagac	gcaaggcctg	gtgtcggcag	ctgggtgagg	agggcccatg	240
ccagcgtgtg	gtgagcacac	acggtgtgtg	gctgctggcc	ttcctgaaga	agcggaatgg	300
gagcacagtc	atcgcagatg	acacccttgc	tggaaaccgtc	accatcactc	tgaagaacct	360
ccaagccggt	gacgcggggc	tctaccagtg	tcagagtctc	cgaggccgag	aggctgaggt	420
cctgcagaaa	gtactggtgg	aggtgctgga	ggaccctcta	gatgaccaag	atgctggaga	480
tctctgggtc	cccgaggagt	catcgagttt	cgagggtgcc	caagtggaac	acagcacctc	540
caggaatcaa	gagacctcct	ttccaccac	ctccattctt	ctctccttgg	cctgcgttct	600
cctgagcaag	tttcttgca	ccagcatcct	ctgggctgtg	gccaggggca	ggcagaagcc	660
gggaacacct	gtggtcagag	ggctggactg	tggccaagat	gctgggcacc	aacttcagat	720
cctcactgga	cccggaggtg	cgtgagagaa	tcttgagtgg	gaggagaact	acagcttaag	780
tccagccagg	agtcaatcca	gctgtcatgc	tctcccctcc	ttccaccaaga	cttctgtttc	840
tgtacttttt	gcttcagagg	cgcctcttgc	ctcaagccca	cctatcctgg	gagcaggaat	900
actggtgtgt	acatctgtgt	tgagtgggga	agacagctgg	atggttgtct	gtcaagttct	960
gcacttttga	cattaaacat	tctccacaca	ccaaaaaaaa	aaaaaaaaa		1008

```
<210> 43
<211> 1871
<212> DNA
<213> Mouse
```

<400> 43  
ggcagcggca gtgtagagcc gggccgggag gccgatcctg cgggtctgga gtcgggcggg 60  
accatgggga cgggggctgg tgggccgagt gtcttggcgc tgctgttcgc cgtgtgtgct 120



ccgctccggt	tgcaggcgga	ggagctgggt	gatggctgtg	ggcacatagt	gacctctcag	180
gacagtggca	caatgacatc	taagaattat	ccagggaactt	accccaatta	cactgtgtgt	240
gaaaagatca	tcacagtccc	aaaggggaag	agacttattc	tgaggttggg	agatttgaac	300
attgagtcca	agacctgcgc	ttctgactat	ctcctcttca	gcagtgaac	agatcagtat	360
gggtccatatt	gtgggagttg	ggctgttccc	aaagaactcc	ggctgaactc	aaacgaagtg	420
actgtcctct	tcaagagtgg	atctcacatt	tctggccggg	gctttctgct	gacctacgcc	480
agcagtgacc	atccagatth	aataacctgt	ttggaacgag	gcagccatta	tttcgaggaa	540
aaatacagca	aattctgccc	agctggctgt	agagacatag	cacgagatat	ttctgggaat	600
acaaaagatg	gttacagaga	tacctcttta	ttgtgcaaag	ctgccatcca	cgcagggatc	660
atcacagatg	aactaggtgg	ccacatcaac	ttgcttcaga	gcaaagggat	aagtcactat	720
gaaggactcc	tggccaatgg	cgtgctctcc	cggcatgggt	ctttgtcggg	aaagcgattt	780
ctttttacaa	ccccaggaat	gaatattaca	actgtggcga	ttccatcagt	gatcttcac	840
gccctccttc	tgactggaat	ggggatcttt	gcaatctgta	gaaagaggaa	aaagaaagga	900
aatccatatg	tgtcagctga	cgctcagaaa	acaggctggt	ggaagcagat	taaatatccc	960
tttgccaggc	atcagtcgac	ggaatttacc	atcagctatg	acaatgaaaa	agagatgaca	1020
caaaagttgg	atctcatcac	tagtgatatg	gcagattatc	agcagcctct	catgattggc	1080
acaggcacag	tgcgagaaaa	gggtcttacc	ttccgaccca	tggacacaga	cactgaggag	1140
gtcagagtga	acactgaggc	cagcggccac	tatgactgtc	ctcaccgccc	gggcccgcct	1200
gagtacgcac	tgcctttgac	gcactcagaa	cctgagtatg	ccacacctat	cgtggagcgg	1260
cacctgctgc	gagctcacac	cttctccaca	cagagcggct	accgagtccc	tgggcccagg	1320
cccactcacg	aacactccca	ttctcttgga	ggctttcctc	ctgctacagg	agccacccag	1380
gttgaaagct	atcagaggcc	agcaagcccc	aagcctgtgg	gtggtggcta	tgacaagcct	1440
gctgctagca	gcttcttgga	cagcagagac	ccagcctctc	agtcacagat	gacttccggg	1500
ggagatgatg	gttattcggc	acccagaaac	ggctctgcgc	ccctcaacca	gacggccatg	1560
actgctcttt	tgtgaaccca	atgtgaaaga	aacctgctgt	ggtactgagc	gcgcaccgct	1620
gcgagtcact	ggaagaaatg	tgcaagcgtg	catgtgtgac	tcttcaggat	cctagagacg	1680
acctcactta	ctgtttacag	aactgtgcag	ctggtttagt	tccaaccctt	cctgcagagc	1740
cagttggttt	ctgttgtgct	agaacaaggg	gacttttctc	atttgtctta	actgtgatgc	1800
tgtgctgtaa	aatgtgcaat	ttgtacagtt	atatttaaca	cgaattaaca	ttaaaaaaaa	1860
aaaaaaaaaa	a					1871

<210> 44

<211> 3767

<212> DNA

<213> Mouse

<400> 44

cggacttggg	gcgggaggct	ggcggataaa	aagccccag	ggcgccccgg	gaggcccgtt	60
agcgtgctc	tgcgcggcg	cccggcccag	ccccgacctc	cacatcctgc	cggcgctctg	120
aaatcaccat	gatgtggccc	caaccaccca	ccttctccct	gttctgcta	ctgctgctaa	180
gccaagcccc	ttccagtagg	ccacagtcac	caggcaccaa	gaagctcagg	cttgtggggc	240
cagcggacag	accaaaggag	ggccgcttgg	aggtgctgca	ccagggccag	tggggcacgg	300
tgtgtgatga	tgatttcgct	ctccaggagg	ctactgtggc	ctgccgacag	ctgggctttg	360
agtcagcctt	gacctgggca	cacagtgcga	agtatggtca	aggagagggt	cccatctggc	420
tggacaatgt	tcgttgtttg	ggcaccgaga	agacctaga	tcagtgtggc	tctaacggct	480
ggggatatcag	tgactgcaga	cactcagaag	atgttggggg	ggtatgtcac	ccacggcgcc	540
agcacggata	tactcttgag	aaggtctcca	atgccctcgg	gcctcagggc	cggcggctag	600
aagaggtacg	gctgaaaccc	atcctcgcca	gtgccaaaag	gcacagccca	gtgactgaag	660
gggctgtgga	agtacggtac	gacggccact	ggaggcaggt	gtgtgaccag	ggctggacca	720
tgaacaactag	cagggttgta	tgcgggatgc	tgggctttcc	cagtcagaca	tctgtcaaca	780
gccactacta	cagaaaagtc	tggaatctga	agatgaagga	tcccaagtc	aggctcaaca	840
gcctgacaaa	aaagaattcc	ttctggattc	accgggttga	ctgtttcggg	acagagcccc	900
acttggccaa	gtgccaggta	caggtggctc	caggaagggg	caagcttcgg	gcagcctgtc	960
caggcggcat	gcacgtgtg	gtcagctgtg	tggcagggcc	ccacttccgc	cgacagaagc	1020
caaagcccac	gcgcaaggag	tcccatgcag	aggagctgaa	agtgcgcctg	cgtcttgggg	1080
ctcaggtggg	tgaggggcgt	gtggaagtgc	tcatgaaccg	ccagtggggc	acagtctgtg	1140
accacaggtg	gaacctcatc	tcagccagcg	tcgtgtgtcg	ccagcttggc	tttggctctg	1200



gtggcgcccg	tggtggccgc	cgtggcgggc	gcgggtgtcg	gcttcgtggc	ctatcagcgg	480
cggcgcctgt	gcttcgcgca	gggcggctcc	gccccgtgt	agatgacgcc	atggccccgc	540
ccctccgggc	atcatcgccc	cctccagggc	cccgatgaca	tactgacgc	tgctcatttg	600
catacgcgct	ccgccccgct	gtgacgtcac	tgacccccgc	cccggcctcg	cctgaatatg	660
caaatagtcg	gccccgcctc	ccgccgtgaa	atcaccgcct	gcaccgcccc	tcgccgctgc	720
atcagtgatg	tcactactgc	caaagactcc	gcccacaact	gacctctgac	cccggtgaca	780
tcataacctc	cactcacaag	gagccatcat	gggcagcccc	ctgtctcagc	tcagcatccc	840
ctccaggaca	ggaaggggcg	gagcctgaag	gccgggggcg	ggaccggaaa	taaaggcgga	900
gttttgtaaa	aaaaaaaaaa	aaaaa				925

<210> 46  
 <211> 1423  
 <212> DNA  
 <213> Mouse

tctgtgcggc	tcaagtgtgt	ggccagtggg	caccacggc	cagacatcat	gtggatgaag	60
gatgaccaga	ccttgacgca	tctagaggct	agtgaacaca	gaaagaagaa	gtggacactg	120
agcttgaaga	acctgaagcc	tgaagacagt	ggcaagtaca	cgtgccgtgt	atctaacaag	180
gccggtgcca	tcaacgccac	ctacaaagtg	gatgtaatcc	gtgagtgggtg	ggctctgtggt	240
aggacagggg	ccggtgggtg	ctaaaactgt	gctgacatgt	ttgtttttcc	ttggcttaga	300
gcggaactcg	tccaagcctg	tgctcacagg	gacacaccct	gtgaacacaa	cggtggactt	360
cggtgggaca	acgtccttcc	agtgaaggt	gcgcagtgac	gtgaagcctg	tgatccagtg	420
gctgaagcgg	gtggagtacg	gctccgaggg	acgccacaac	tccaccattg	atgtgggtgg	480
ccagaagttt	gtgggtgttg	ccacgggtga	tgtgtggtca	cggcctgatg	gctcctacct	540
caacaagctg	ctcatctctc	gggcccgcga	ggatgatget	ggcatgtaca	tctgcctagg	600
tgcaaatacc	atgggctaca	gtttccgtag	cgcttctctc	actgtattac	caggtgtgtg	660
tgtgggctgc	ccaccccatg	tttactctca	gtctctacca	ttggtctggg	ctgtcctggg	720
gttccccaat	gtccacttag	caagtggggc	ctccctatcc	ttttcccttc	gttgtgggtt	780
atccttgctt	catagggagt	tcaggggtgc	tgcccatata	gttcacattt	gggctgggtg	840
ccccattaat	atagggacat	tctgtccctc	actcttcttc	ttaatctctc	ttgcagacct	900
caaacctcca	gggctcctca	tggtctcttc	atcgtcatcc	acaagcctgc	catggcctgt	960
gggtgatcgg	atcccagctg	gtgctgtctt	catcctaggc	actgtgctgc	tctggctttg	1020
ccagaccaag	aagaagccat	gtgccccagc	atctacactt	cctgtgcctg	ggcatcgtcc	1080
cccagggaca	ttccgagaac	gcagtgggtga	caaggacctg	ccctcattgg	ctgtgggcat	1140
atgtgaggag	catggatccg	ccatggcccc	ccagcacatc	ctggcctctg	gctcaactgc	1200
tgcccccaag	ctgtacccca	agctatacac	agatgtgcac	acacacacac	atacacacac	1260
ctgcactcac	acgtctctcat	gtggagggca	aggttcatca	acaccagcat	gtccactatc	1320
agtgtctaat	acagcgaatc	tccaagcact	gtgtcctgag	gtaggcatat	gggggccaag	1380
gcaacaggtt	gggagaattg	agaacaatgg	aggaagagta	tct		1423

<210> 47  
 <211> 464  
 <212> PRT  
 <213> Mouse

<400> 47															
Met	Gly	Arg	Ala	Trp	Gly	Leu	Leu	Val	Gly	Leu	Leu	Gly	Val	Val	Trp
1				5				10					15		
Leu	Leu	Arg	Leu	Gly	His	Gly	Glu	Glu	Arg	Arg	Pro	Glu	Thr	Ala	Ala
			20					25					30		
Gln	Arg	Cys	Phe	Cys	Gln	Val	Ser	Gly	Tyr	Leu	Asp	Asp	Cys	Thr	Cys
		35					40				45				
Asp	Val	Glu	Thr	Ile	Asp	Lys	Phe	Asn	Asn	Tyr	Arg	Leu	Phe	Pro	Arg
	50					55				60					
Leu	Gln	Lys	Leu	Leu	Glu	Ser	Asp	Tyr	Phe	Arg	Tyr	Tyr	Lys	Val	Asn
65					70					75					80

Leu	Lys	Lys	Pro	Cys	Pro	Phe	Trp	Asn	Asp	Ile	Asn	Gln	Cys	Gly	Arg		
				85					90					95			
Arg	Asp	Cys	Ala	Val	Lys	Pro	Cys	His	Ser	Asp	Glu	Val	Pro	Asp	Gly		
			100					105					110				
Ile	Lys	Ser	Ala	Ser	Tyr	Lys	Tyr	Ser	Glu	Glu	Ala	Asn	Arg	Ile	Glu		
			115				120					125					
Glu	Cys	Glu	Gln	Ala	Glu	Arg	Leu	Gly	Ala	Val	Asp	Glu	Ser	Leu	Ser		
			130			135					140						
Glu	Glu	Thr	Gln	Lys	Ala	Val	Leu	Gln	Trp	Thr	Lys	His	Asp	Asp	Ser		
145					150					155					160		
Ser	Asp	Ser	Phe	Cys	Glu	Ile	Asp	Asp	Ile	Gln	Ser	Pro	Asp	Ala	Glu		
				165				170						175			
Tyr	Val	Asp	Leu	Leu	Leu	Asn	Pro	Glu	Arg	Tyr	Thr	Gly	Tyr	Lys	Gly		
			180					185				190					
Pro	Asp	Ala	Trp	Arg	Ile	Trp	Ser	Val	Ile	Tyr	Glu	Glu	Asn	Cys	Phe		
			195				200					205					
Lys	Pro	Gln	Thr	Ile	Gln	Arg	Pro	Leu	Ala	Ser	Gly	Arg	Gly	Lys	Ser		
			210			215					220						
Lys	Glu	Asn	Thr	Phe	Tyr	Asn	Trp	Leu	Glu	Gly	Leu	Cys	Val	Glu	Lys		
225					230					235					240		
Arg	Ala	Phe	Tyr	Arg	Leu	Ile	Ser	Gly	Leu	His	Ala	Ser	Ile	Asn	Val		
				245				250						255			
His	Leu	Ser	Ala	Arg	Tyr	Leu	Leu	Gln	Asp	Thr	Trp	Leu	Glu	Lys	Lys		
			260					265					270				
Trp	Gly	His	Asn	Val	Thr	Glu	Phe	Gln	Gln	Arg	Phe	Asp	Gly	Ile	Leu		
			275				280					285					
Thr	Glu	Gly	Glu	Gly	Pro	Arg	Arg	Leu	Arg	Asn	Leu	Tyr	Phe	Leu	Tyr		
			290			295				300							
Leu	Ile	Glu	Leu	Arg	Ala	Leu	Ser	Lys	Val	Leu	Pro	Phe	Phe	Glu	Arg		
305					310					315					320		
Pro	Asp	Phe	Gln	Leu	Phe	Thr	Gly	Asn	Lys	Val	Gln	Asp	Ala	Glu	Asn		
				325				330					335				
Lys	Ala	Leu	Leu	Leu	Glu	Ile	Leu	His	Glu	Ile	Lys	Ser	Phe	Pro	Leu		
			340				345						350				
His	Phe	Asp	Glu	Asn	Ser	Phe	Phe	Ala	Gly	Asp	Lys	Asn	Glu	Ala	His		
			355				360					365					
Lys	Leu	Lys	Glu	Asp	Phe	Arg	Leu	His	Phe	Arg	Asn	Ile	Ser	Arg	Ile		
			370			375					380						
Met	Asp	Cys	Val	Gly	Cys	Phe	Lys	Cys	Arg	Leu	Trp	Gly	Lys	Leu	Gln		
385					390					395					400		
Thr	Gln	Gly	Leu	Gly	Thr	Ala	Leu	Lys	Ile	Leu	Phe	Ser	Glu	Lys	Leu		
				405				410						415			
Ile	Ala	Asn	Met	Pro	Glu	Ser	Gly	Pro	Ser	Tyr	Glu	Phe	Gln	Leu	Thr		
			420				425						430				
Arg	Gln	Glu	Ile	Val	Ser	Leu	Phe	Asn	Ala	Phe	Gly	Arg	Ile	Ser	Thr		
			435				440					445					
Ser	Val	Arg	Glu	Leu	Glu	Asn	Phe	Arg	His	Leu	Leu	Gln	Asn	Val	His		
			450			455					460						

<210> 48  
 <211> 664  
 <212> PRT  
 <213> Mouse

<400> 48  
 Met Lys Arg Arg Asn Ala Asp Cys Ser Lys Leu Arg Arg Pro Leu Lys  
 1 5 10 15

Arg	Asn	Arg	Ile	Thr	Glu	Gly	Ile	Tyr	Gly	Ser	Thr	Phe	Leu	Tyr	Leu
			20					25					30		
Lys	Phe	Leu	Val	Val	Trp	Ala	Leu	Val	Leu	Leu	Ala	Asp	Phe	Val	Leu
		35					40					45			
Glu	Phe	Arg	Phe	Glu	Tyr	Leu	Trp	Pro	Phe	Trp	Leu	Phe	Ile	Arg	Ser
		50				55					60				
Val	Tyr	Asp	Ser	Phe	Arg	Tyr	Gln	Gly	Leu	Ala	Phe	Ser	Val	Phe	Phe
65					70					75					80
Val	Cys	Val	Ala	Phe	Thr	Ser	Asn	Ile	Ile	Cys	Leu	Leu	Phe	Ile	Pro
				85					90					95	
Ile	Gln	Trp	Leu	Phe	Phe	Ala	Ala	Ser	Thr	Tyr	Val	Trp	Val	Gln	Tyr
		100						105					110		
Val	Trp	His	Thr	Glu	Arg	Gly	Val	Cys	Leu	Pro	Thr	Val	Ser	Leu	Trp
		115					120					125			
Ile	Leu	Phe	Val	Tyr	Ile	Glu	Ala	Ala	Ile	Arg	Phe	Lys	Asp	Leu	Lys
		130				135					140				
Asn	Phe	His	Val	Asp	Leu	Cys	Arg	Pro	Phe	Ala	Ala	His	Cys	Ile	Gly
145					150					155					160
Tyr	Pro	Val	Val	Thr	Leu	Gly	Phe	Gly	Phe	Lys	Ser	Tyr	Val	Ser	Tyr
				165					170					175	
Lys	Met	Arg	Leu	Arg	Lys	Gln	Lys	Glu	Val	Gln	Lys	Glu	Asn	Glu	Phe
			180					185					190		
Tyr	Met	Gln	Leu	Leu	Gln	Gln	Ala	Leu	Pro	Pro	Glu	Gln	Gln	Met	Leu
		195					200					205			
Gln	Lys	Gln	Glu	Lys	Glu	Ala	Glu	Glu	Ala	Ala	Lys	Gly	Leu	Pro	Asp
		210				215					220				
Met	Asp	Ser	Ser	Ile	Leu	Ile	His	His	Asn	Gly	Gly	Ile	Pro	Ala	Asn
225					230					235					240
Lys	Lys	Leu	Ser	Thr	Thr	Leu	Pro	Glu	Ile	Glu	Tyr	Arg	Glu	Lys	Gly
				245					250					255	
Lys	Glu	Lys	Asp	Lys	Asp	Ala	Lys	Lys	His	Asn	Leu	Gly	Ile	Asn	Asn
			260					265					270		
Asn	Asn	Ile	Leu	Gln	Pro	Val	Asp	Ser	Lys	Ile	Gln	Glu	Ile	Glu	Tyr
		275					280					285			
Met	Glu	Asn	His	Ile	Asn	Ser	Lys	Arg	Leu	Asn	Asn	Asp	Leu	Val	Gly
		290				295					300				
Ser	Thr	Glu	Asn	Leu	Leu	Lys	Glu	Asp	Ser	Cys	Thr	Ala	Ser	Ser	Lys
305					310					315					320
Asn	Tyr	Lys	Asn	Ala	Ser	Gly	Val	Val	Asn	Ser	Ser	Pro	Arg	Ser	His
				325					330					335	
Ser	Ala	Thr	Asn	Gly	Ser	Ile	Pro	Ser	Ser	Ser	Ser	Lys	Asn	Glu	Lys
			340					345					350		
Lys	Gln	Lys	Cys	Thr	Ser	Lys	Gly	Pro	Ser	Ala	His	Lys	Asp	Leu	Met
			355				360					365			
Glu	Asn	Cys	Ile	Pro	Asn	Asn	Gln	Leu	Ser	Lys	Pro	Asp	Ala	Leu	Val
		370				375					380				
Arg	Leu	Glu	Gln	Asp	Ile	Lys	Lys	Leu	Lys	Ala	Asp	Leu	Gln	Ala	Ser
385					390					395					400
Arg	Gln	Val	Glu	Gln	Glu	Leu	Arg	Ser	Gln	Ile	Ser	Ala	Leu	Ser	Ser
				405					410					415	
Thr	Glu	Arg	Gly	Ile	Arg	Ser	Glu	Met	Gly	Gln	Leu	Arg	Gln	Glu	Asn
			420					425					430		
Glu	Leu	Leu	Gln	Asn	Lys	Leu	His	Asn	Ala	Val	Gln	Met	Lys	Gln	Lys
			435				440					445			
Asp	Lys	Gln	Asn	Ile	Ser	Gln	Leu	Glu	Lys	Lys	Leu	Lys	Ala	Glu	Gln
		450				455					460				
Glu	Ala	Arg	Ser	Phe	Val	Glu	Lys	Gln	Leu	Met	Glu	Glu	Lys	Lys	Arg

465                      470                      475                      480  
 Lys Lys Leu Glu Glu Ala Thr Ala Ala Arg Ala Val Ala Phe Ala Ala  
                                  485                      490                      495  
 Ala Ser Arg Gly Glu Cys Thr Glu Thr Leu Arg Ser Arg Ile Arg Glu  
                                  500                      505                      510  
 Leu Glu Ala Glu Gly Lys Lys Leu Thr Met Asp Met Lys Val Lys Glu  
                                  515                      520                      525  
 Glu Gln Ile Arg Glu Leu Glu Leu Lys Val Gln Glu Leu Arg Lys Tyr  
                                  530                      535                      540  
 Lys Glu Asn Glu Lys Asp Thr Glu Val Leu Met Ser Ala Leu Ser Ala  
 545                      550                      555                      560  
 Met Gln Asp Lys Thr Gln His Leu Glu Asn Ser Leu Ser Ala Glu Thr  
                                  565                      570                      575  
 Arg Ile Lys Leu Asp Leu Phe Ser Ala Leu Gly Asp Ala Lys Arg Gln  
                                  580                      585                      590  
 Leu Glu Ile Ala Gln Gly Gln Ile Leu Gln Lys Asp Gln Glu Ile Lys  
                                  595                      600                      605  
 Asp Leu Lys Gln Lys Ile Ala Glu Val Met Ala Val Met Pro Ser Ile  
                                  610                      615                      620  
 Thr Tyr Ser Ala Ala Thr Ser Pro Leu Ser Pro Val Ser Pro His Tyr  
 625                      630                      635                      640  
 Ser Ser Lys Phe Val Glu Thr Ser Pro Ser Gly Leu Asp Pro Asn Ala  
                                  645                      650                      655  
 Ser Val Tyr Gln Pro Leu Lys Lys  
                                  660

<210> 49  
 <211> 199  
 <212> PRT  
 <213> Mouse

<400> 49  
 Met Ala Ser Leu Trp Cys Gly Asn Leu Leu Arg Leu Gly Ser Gly Leu  
 1                      5                      10                      15  
 Asn Met Ser Cys Leu Ala Leu Ser Val Leu Leu Leu Ala Gln Leu Thr  
                                  20                      25                      30  
 Gly Ala Ala Lys Asn Phe Glu Asp Val Arg Cys Lys Cys Ile Cys Pro  
                                  35                      40                      45  
 Pro Tyr Lys Glu Asn Pro Gly His Ile Tyr Asn Lys Asn Ile Ser Gln  
                                  50                      55                      60  
 Lys Asp Cys Asp Cys Leu His Val Val Glu Pro Met Pro Val Arg Gly  
 65                      70                      75                      80  
 Pro Asp Val Glu Ala Tyr Cys Leu Arg Cys Glu Cys Lys Tyr Glu Glu  
                                  85                      90                      95  
 Arg Ser Ser Val Thr Ile Lys Val Thr Ile Ile Ile Tyr Leu Ser Ile  
                                  100                      105                      110  
 Leu Gly Leu Leu Leu Tyr Met Val Tyr Leu Thr Leu Val Glu Pro  
                                  115                      120                      125  
 Ile Leu Lys Arg Arg Leu Phe Gly His Ser Gln Leu Leu Gln Ser Asp  
                                  130                      135                      140  
 Asp Asp Val Gly Asp His Gln Pro Phe Ala Asn Ala His Asp Val Leu  
 145                      150                      155                      160  
 Ala Arg Ser Arg Ser Arg Ala Asn Val Leu Asn Lys Val Glu Tyr Ala  
                                  165                      170                      175  
 Gln Gln Arg Trp Lys Leu Gln Val Gln Glu Gln Arg Lys Ser Val Phe  
                                  180                      185                      190  
 Asp Arg His Val Val Leu Ser

195

<210> 50  
<211> 227  
<212> PRT  
<213> Mouse

<400> 50

Met	Gly	Pro	Leu	His	Gln	Phe	Leu	Leu	Leu	Leu	Ile	Thr	Ala	Leu	Ser
1				5					10					15	
Gln	Ala	Leu	Asn	Thr	Thr	Val	Leu	Gln	Gly	Met	Ala	Gly	Gln	Ser	Leu
			20					25					30		
Arg	Val	Ser	Cys	Thr	Tyr	Asp	Ala	Leu	Lys	His	Trp	Gly	Arg	Arg	Lys
		35					40					45			
Ala	Trp	Cys	Arg	Gln	Leu	Gly	Glu	Glu	Gly	Pro	Cys	Gln	Arg	Val	Val
	50					55					60				
Ser	Thr	His	Gly	Val	Trp	Leu	Leu	Ala	Phe	Leu	Lys	Lys	Arg	Asn	Gly
65					70					75					80
Ser	Thr	Val	Ile	Ala	Asp	Asp	Thr	Leu	Ala	Gly	Thr	Val	Thr	Ile	Thr
				85					90					95	
Leu	Lys	Asn	Leu	Gln	Ala	Gly	Asp	Ala	Gly	Leu	Tyr	Gln	Cys	Gln	Ser
			100					105					110		
Leu	Arg	Gly	Arg	Glu	Ala	Glu	Val	Leu	Gln	Lys	Val	Leu	Val	Glu	Val
		115					120					125			
Leu	Glu	Asp	Pro	Leu	Asp	Asp	Gln	Asp	Ala	Gly	Asp	Leu	Trp	Val	Pro
	130					135					140				
Glu	Glu	Ser	Ser	Ser	Phe	Glu	Gly	Ala	Gln	Val	Glu	His	Ser	Thr	Ser
145					150					155					160
Arg	Asn	Gln	Glu	Thr	Ser	Phe	Pro	Pro	Thr	Ser	Ile	Leu	Leu	Leu	Leu
				165					170					175	
Ala	Cys	Val	Leu	Leu	Ser	Lys	Phe	Leu	Ala	Ala	Ser	Ile	Leu	Trp	Ala
			180					185					190		
Val	Ala	Arg	Gly	Arg	Gln	Lys	Pro	Gly	Thr	Pro	Val	Val	Arg	Gly	Leu
		195					200					205			
Asp	Cys	Gly	Gln	Asp	Ala	Gly	His	Gln	Leu	Gln	Ile	Leu	Thr	Gly	Pro
	210					215					220				
Gly	Gly	Thr													
225															

<210> 51  
<211> 503  
<212> PRT  
<213> Mouse

<400> 51

Met	Gly	Thr	Gly	Ala	Gly	Gly	Pro	Ser	Val	Leu	Ala	Leu	Leu	Phe	Ala
1				5					10					15	
Val	Cys	Ala	Pro	Leu	Arg	Leu	Gln	Ala	Glu	Glu	Leu	Gly	Asp	Gly	Cys
			20					25					30		
Gly	His	Ile	Val	Thr	Ser	Gln	Asp	Ser	Gly	Thr	Met	Thr	Ser	Lys	Asn
		35					40					45			
Tyr	Pro	Gly	Thr	Tyr	Pro	Asn	Tyr	Thr	Val	Cys	Glu	Lys	Ile	Ile	Thr
	50					55					60				
Val	Pro	Lys	Gly	Lys	Arg	Leu	Ile	Leu	Arg	Leu	Gly	Asp	Leu	Asn	Ile
65					70					75					80
Glu	Ser	Lys	Thr	Cys	Ala	Ser	Asp	Tyr	Leu	Leu	Phe	Ser	Ser	Ala	Thr
				85					90					95	

Asp	Gln	Tyr	Gly	Pro	Tyr	Cys	Gly	Ser	Trp	Ala	Val	Pro	Lys	Glu	Leu		
			100					105					110				
Arg	Leu	Asn	Ser	Asn	Glu	Val	Thr	Val	Leu	Phe	Lys	Ser	Gly	Ser	His		
		115					120						125				
Ile	Ser	Gly	Arg	Gly	Phe	Leu	Leu	Thr	Tyr	Ala	Ser	Ser	Asp	His	Pro		
		130				135						140					
Asp	Leu	Ile	Thr	Cys	Leu	Glu	Arg	Gly	Ser	His	Tyr	Phe	Glu	Glu	Lys		
145					150					155					160		
Tyr	Ser	Lys	Phe	Cys	Pro	Ala	Gly	Cys	Arg	Asp	Ile	Ala	Arg	Asp	Ile		
				165					170					175			
Ser	Gly	Asn	Thr	Lys	Asp	Gly	Tyr	Arg	Asp	Thr	Ser	Leu	Leu	Cys	Lys		
		180						185					190				
Ala	Ala	Ile	His	Ala	Gly	Ile	Ile	Thr	Asp	Glu	Leu	Gly	Gly	His	Ile		
		195				200						205					
Asn	Leu	Leu	Gln	Ser	Lys	Gly	Ile	Ser	His	Tyr	Glu	Gly	Leu	Leu	Ala		
	210					215					220						
Asn	Gly	Val	Leu	Ser	Arg	His	Gly	Ser	Leu	Ser	Glu	Lys	Arg	Phe	Leu		
225					230					235					240		
Phe	Thr	Thr	Pro	Gly	Met	Asn	Ile	Thr	Thr	Val	Ala	Ile	Pro	Ser	Val		
				245					250					255			
Ile	Phe	Ile	Ala	Leu	Leu	Leu	Thr	Gly	Met	Gly	Ile	Phe	Ala	Ile	Cys		
			260					265					270				
Arg	Lys	Arg	Lys	Lys	Lys	Gly	Asn	Pro	Tyr	Val	Ser	Ala	Asp	Ala	Gln		
		275					280					285					
Lys	Thr	Gly	Cys	Trp	Lys	Gln	Ile	Lys	Tyr	Pro	Phe	Ala	Arg	His	Gln		
	290					295				300							
Ser	Thr	Glu	Phe	Thr	Ile	Ser	Tyr	Asp	Asn	Glu	Lys	Glu	Met	Thr	Gln		
305					310					315					320		
Lys	Leu	Asp	Leu	Ile	Thr	Ser	Asp	Met	Ala	Asp	Tyr	Gln	Gln	Pro	Leu		
			325						330					335			
Met	Ile	Gly	Thr	Gly	Thr	Val	Ala	Arg	Lys	Gly	Ser	Thr	Phe	Arg	Pro		
		340						345					350				
Met	Asp	Thr	Asp	Thr	Glu	Glu	Val	Arg	Val	Asn	Thr	Glu	Ala	Ser	Gly		
		355				360						365					
His	Tyr	Asp	Cys	Pro	His	Arg	Pro	Gly	Arg	His	Glu	Tyr	Ala	Leu	Pro		
	370					375					380						
Leu	Thr	His	Ser	Glu	Pro	Glu	Tyr	Ala	Thr	Pro	Ile	Val	Glu	Arg	His		
385					390					395					400		
Leu	Leu	Arg	Ala	His	Thr	Phe	Ser	Thr	Gln	Ser	Gly	Tyr	Arg	Val	Pro		
			405						410					415			
Gly	Pro	Arg	Pro	Thr	His	Glu	His	Ser	His	Ser	Ser	Gly	Gly	Phe	Pro		
			420					425					430				
Pro	Ala	Thr	Gly	Ala	Thr	Gln	Val	Glu	Ser	Tyr	Gln	Arg	Pro	Ala	Ser		
	435					440						445					
Pro	Lys	Pro	Val	Gly	Gly	Gly	Tyr	Asp	Lys	Pro	Ala	Ala	Ser	Ser	Phe		
	450					455				460							
Leu	Asp	Ser	Arg	Asp	Pro	Ala	Ser	Gln	Ser	Gln	Met	Thr	Ser	Gly	Gly		
465					470					475					480		
Asp	Asp	Gly	Tyr	Ser	Ala	Pro	Arg	Asn	Gly	Leu	Ala	Pro	Leu	Asn	Gln		
			485					490						495			
Thr	Ala	Met	Thr	Ala	Leu	Leu											
			500														

<210> 52  
 <211> 757  
 <212> PRT  
 <213> Mouse



<400> 52

Met	Met	Trp	Pro	Gln	Pro	Pro	Thr	Phe	Ser	Leu	Phe	Leu	Leu	Leu	Leu
1				5				10						15	
Leu	Ser	Gln	Ala	Pro	Ser	Ser	Arg	Pro	Gln	Ser	Ser	Gly	Thr	Lys	Lys
			20					25					30		
Leu	Arg	Leu	Val	Gly	Pro	Ala	Asp	Arg	Pro	Lys	Glu	Gly	Arg	Leu	Glu
		35					40					45			
Val	Leu	His	Gln	Gly	Gln	Trp	Gly	Thr	Val	Cys	Asp	Asp	Asp	Phe	Ala
	50					55					60				
Leu	Gln	Glu	Ala	Thr	Val	Ala	Cys	Arg	Gln	Leu	Gly	Phe	Glu	Ser	Ala
65					70					75					80
Leu	Thr	Trp	Ala	His	Ser	Ala	Lys	Tyr	Gly	Gln	Gly	Glu	Gly	Pro	Ile
			85					90						95	
Trp	Leu	Asp	Asn	Val	Arg	Cys	Leu	Gly	Thr	Glu	Lys	Thr	Leu	Asp	Gln
			100					105					110		
Cys	Gly	Ser	Asn	Gly	Trp	Gly	Ile	Ser	Asp	Cys	Arg	His	Ser	Glu	Asp
		115					120					125			
Val	Gly	Val	Val	Cys	His	Pro	Arg	Arg	Gln	His	Gly	Tyr	His	Ser	Glu
	130					135					140				
Lys	Val	Ser	Asn	Ala	Leu	Gly	Pro	Gln	Gly	Arg	Arg	Leu	Glu	Glu	Val
145					150					155					160
Arg	Leu	Lys	Pro	Ile	Leu	Ala	Ser	Ala	Lys	Arg	His	Ser	Pro	Val	Thr
				165					170					175	
Glu	Gly	Ala	Val	Glu	Val	Arg	Tyr	Asp	Gly	His	Trp	Arg	Gln	Val	Cys
			180					185					190		
Asp	Gln	Gly	Trp	Thr	Met	Asn	Asn	Ser	Arg	Val	Val	Cys	Gly	Met	Leu
		195				200						205			
Gly	Phe	Pro	Ser	Gln	Thr	Ser	Val	Asn	Ser	His	Tyr	Tyr	Arg	Lys	Val
	210					215					220				
Trp	Asn	Leu	Lys	Met	Lys	Asp	Pro	Lys	Ser	Arg	Leu	Asn	Ser	Leu	Thr
225					230					235					240
Lys	Lys	Asn	Ser	Phe	Trp	Ile	His	Arg	Val	Asp	Cys	Phe	Gly	Thr	Glu
				245					250					255	
Pro	His	Leu	Ala	Lys	Cys	Gln	Val	Gln	Val	Ala	Pro	Gly	Arg	Gly	Lys
			260					265					270		
Leu	Arg	Ala	Ala	Cys	Pro	Gly	Gly	Met	His	Ala	Val	Val	Ser	Cys	Val
		275					280					285			
Ala	Gly	Pro	His	Phe	Arg	Arg	Gln	Lys	Pro	Lys	Pro	Thr	Arg	Lys	Glu
	290					295					300				
Ser	His	Ala	Glu	Glu	Leu	Lys	Val	Arg	Leu	Arg	Ser	Gly	Ala	Gln	Val
305					310					315					320
Gly	Glu	Gly	Arg	Val	Glu	Val	Leu	Met	Asn	Arg	Gln	Trp	Gly	Thr	Val
				325					330					335	
Cys	Asp	His	Arg	Trp	Asn	Leu	Ile	Ser	Ala	Ser	Val	Val	Cys	Arg	Gln
			340					345					350		
Leu	Gly	Phe	Gly	Ser	Ala	Arg	Glu	Ala	Leu	Phe	Gly	Ala	Gln	Leu	Gly
		355					360					365			
Gln	Gly	Leu	Gly	Pro	Ile	His	Leu	Ser	Glu	Val	Arg	Cys	Arg	Gly	Tyr
	370					375					380				
Glu	Arg	Thr	Leu	Gly	Asp	Cys	Leu	Ala	Leu	Glu	Gly	Ser	Gln	Asn	Gly
385					390					395					400
Cys	Gln	His	Ala	Asn	Asp	Ala	Ala	Val	Arg	Cys	Asn	Ile	Pro	Asp	Met
			405						410					415	
Gly	Phe	Gln	Asn	Lys	Val	Arg	Leu	Ala	Gly	Gly	Arg	Asn	Ser	Glu	Glu
			420					425					430		
Gly	Val	Val	Glu	Val	Gln	Val	Glu	Val	Asn	Gly	Val	Pro	Arg	Trp	Gly



65		70		75		80									
Pro	Pro	Arg	Pro	His	Gly	Asp	Ser	Gly	Gly	Ile	Ser	Asp	Ser	Asp	Leu
				85					90					95	
Ala	Asp	Ala	Ala	Gly	Gln	Gly	Gly	Gly	Ala	Gly	Arg	Arg	Gly	Ser	Gly
			100					105					110		
Asp	Glu	Gly	Gly	His	Gly	Gly	Ala	Gly	Gly	Ala	Glu	Pro	Glu	Gly	Thr
		115					120					125			
Pro	Gln	Gly	Leu	Val	Pro	Gly	Val	Val	Ala	Ala	Val	Val	Ala	Ala	Val
		130				135					140				
Ala	Gly	Ala	Val	Ser	Ser	Phe	Val	Ala	Tyr	Gln	Arg	Arg	Arg	Leu	Cys
145					150					155				160	
Phe	Arg	Glu	Gly	Gly	Ser	Ala	Pro	Val							
				165											

<210> 54  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 54  
 cccaagctta tgacgcggag ccccgcgctg 30

<210> 55  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 55  
 cgggatccag gccatggcag gcttgtggat gacga 35

<210> 56  
 <211> 37  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 56  
 ccgctcgagt agatactctt cctccattgt tctcatt 37

<210> 57  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 57  
 ctgtgcggct caagtgtg 18

<210> 58  
 <211> 3503  
 <212> DNA  
 <213> Mouse

<400> 58

gactgattcg	cctgcaggtc	gacactagtg	gatccaaaga	attcggcacg	aggcggagtc	60
ccgcctcgcc	gccccctcag	cgccccccagc	ttctctgctg	gccggaacct	gcaccccgaa	120
ccaggaagca	cctggcgggcg	ggcgcgggat	ggctggggccc	agctgggggtc	tccctcgggt	180
ggacggtttc	atccttaccg	agcgccctggg	cagtggcacg	tacgccacgg	tgtacaaggc	240
ctacgccaaag	aaggatactc	gggaagtgggt	agccataaaa	tgcgtggcca	agaagagtct	300
caacaaggcg	tcagtggaaa	acctcctgac	tgagattgag	atcctcaagg	gcattcggca	360
cccccatatc	gtgcagctga	aagacttcca	gtgggacaat	gacaatatct	acctcatcat	420
ggagttctgt	gcagggggtg	acctgtctcg	cttcattcat	acccgcagga	tcctgcctga	480
gaaggtggcc	cgtgttttca	tgacagcagtt	ggctagtgcc	ctgcagttcc	tgcatgaacg	540
aaacatctct	cacttggaac	tgaaaccgca	gaacatcctg	ctgagctctt	tggagaagcc	600
ccacctgaaa	ctggcagact	ttggcttttgc	ccagcacatg	tccccgtggg	acgaaaaaca	660
cgtgctccgt	ggctccccgc	tctatatggc	tcctgagatg	gtgtgtcggc	ggcagtatga	720
tgcgcggtgtg	gacctctgggt	ctgtgggggt	gatcctgtac	gaagccctct	ttgggcagcc	780
ccccctttgcc	tccagatcgt	tctcagagct	agaagaaaag	attcgcagca	atcgggtgat	840
tgaggtgcgt	ctggcaggggt	ctaggcatcc	accggggatt	gagggactca	aggcccagaa	900
gtttgttcag	cactgcagtg	caggctctgg	gcctttcatg	gcagtggggc	atgttctgtg	960
gtggaagcct	agagtctgggt	ccgttcctga	ggatccatat	cagccacgac	aggcaacaaa	1020
tgaccaggcc	caatcttccc	atagtcgggg	gctggaggca	aataccatt	tgataggaga	1080
ctgataaagg	atgcttgggt	ctcttccctgc	acatcaccgg	gacttgccat	gatccactca	1140
gattaccac	agcaaacacg	tacccttatg	ggggttccta	acaggccttg	ggctttgggc	1200
tcagatgttg	gagccttctg	tgatgtgtct	ctgctctatg	cctctgtagc	tccctcttcg	1260
gcccactct	ccctagactg	ccgggacctg	ttgcagcgac	ttctagagcg	ggaccccgcc	1320
cgtcgaatct	ccttcaagga	cttcttttgc	catccttggg	tggacctgga	gcacatgccc	1380
agtggggaga	gcctggcaca	ggcaagggcc	cttgtggtgg	aggctgtgaa	gaaggaccag	1440
gagggggatg	ctgcgctg	cctgtcgtct	tactgcgaag	ctctggactt	ctttgtacct	1500
gcgctacact	gtgagaacca	ggccattcct	ataacctgtg	tgcagagggg	ggcaggagtt	1560
gggtcaggct	ccccattcag	agcttagggg	agatggtgca	gaagatcaac	gtggaactga	1620
gtatctgaag	attgcaaagg	gcttactgtg	gggtaggctt	tcaggacagc	atcctcatat	1680
gaacccttca	ccttctgcag	acgaagtggg	tgcccagagg	aaggaggcaa	ttaaggcgaa	1740
gggtgggacag	tatgtgtccc	gggcagagga	gctcaaagcc	attgtctcct	cctccaatca	1800
ggccctgcta	agacagggca	caactgtcca	agagctgctt	cgaggctgct	ccctcaccat	1860
gagcctttac	tctcacatca	gagatggccc	gtgacaaacc	acgcctcctg	gctgccctgg	1920
aagtggcctc	agctgccttg	gccaaaggag	aggaagctgg	caaagagcag	gatgccctgg	1980
acctgtacca	gcacagcctc	ggggagctgc	tagtgcgtgt	ggcagcagag	gccccaggcc	2040
gaaggcgagg	gctccttcac	accgaggttc	agaacctcat	ggctcgagct	gaatacctga	2100
aggagcagat	caagataagg	gagtcctcact	gggaagcgga	gagtcctggac	aaagaggggc	2160
tgctcgagtc	tgttcgtagt	tcttgccacac	tgcatgaca	ccggaaggag	cagcggatgg	2220
agcacaaccc	tagagagaag	ctgcattacc	aactcaggtt	gacacctgca	cacctgggac	2280
cttctctggac	gagcagctcc	cacatgctgg	ttcccagcat	tcctctgagt	gttctccacc	2340
cttggggcggt	ctgggtggcag	gtgtactaag	ctctgggaga	attacttgaa	tgtgaccttg	2400
tcattagggtg	actgctgggt	taagcctgtc	cggcttcagg	acaccatcac	cccgttgtgt	2460
tttgtttctgc	aaagaggacg	tcatgcctct	tcaggacact	tgctaccaga	cagctgctgt	2520
acctggggcca	ccccctccctg	ggagccttta	ttccaacctt	actttttttc	ttgcactgga	2580
atgggacact	cggataacct	cagggaactac	ctacctgaca	gtatgctctc	ggctctcaga	2640
cctctccagt	cttctctgcga	gctcagagct	gccatccttt	tcagttcttt	aagacaatcc	2700
ttcatgcatg	aaagtcatgc	cctttgtaaa	gggtggaatac	atgtgagaac	cccagacctt	2760
ccctgccttg	gcatggagga	gggtcctcca	tacccccact	tacagctctc	tttgagggga	2820
tatgcccacac	tagtcacatg	gtggaccctg	agctagagct	gggtcttggc	tgggtcttcc	2880
cctctgtcct	attaagctat	ggatacatcc	acagcttata	ccctgtatga	gctggagaag	2940
aacttacgta	tctggagtta	ctggaagatt	gctctttttt	ttttcttctt	ttaaaccacc	3000

```

cctccccag gtcacatct tgtttcagat ttttattcaa attcttattg aaggctgatt 3060
tttgaataag gagcagagga gctgttctgc cacaaatgac ccccaaataa caggcactga 3120
gactttcttt cttccttctt tccttctctt cttccttctt tccttctctt cttccttctt 3180
tccttctctt ctttctttct ttctttcttt ctttctttct ttctttcttt ctttctttct 3240
ttcttctttt ttcttctgtg tgtgtgtggg gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 3300
gtgtgtgtgt aaaggggtat ttttaaagtt agagaatact ggtgattttc aatcattctg 3360
cccttaaccg cctccttagg gcaaaatgga acaccctcct tgctaaaggc tggatgtatg 3420
taaagacaat agttcattgt ttctctatta aattattttt cctccttaaa aaaaaaaaaa 3480
aaaaaaaaa aaaaaaaaaa aaa 3503

```

<210> 59  
 <211> 311  
 <212> PRT  
 <213> Mouse

<400> 59

```

Met Ala Gly Pro Ser Trp Gly Leu Pro Arg Leu Asp Gly Phe Ile Leu
 1          5          10          15
Thr Glu Arg Leu Gly Ser Gly Thr Tyr Ala Thr Val Tyr Lys Ala Tyr
 20          25          30
Ala Lys Lys Asp Thr Arg Glu Val Val Ala Ile Lys Cys Val Ala Lys
 35          40          45
Lys Ser Leu Asn Lys Ala Ser Val Glu Asn Leu Leu Thr Glu Ile Glu
 50          55          60
Ile Leu Lys Gly Ile Arg His Pro His Ile Val Gln Leu Lys Asp Phe
 65          70          75          80
Gln Trp Asp Asn Asp Asn Ile Tyr Leu Ile Met Glu Phe Cys Ala Gly
 85          90          95
Gly Asp Leu Ser Arg Phe Ile His Thr Arg Arg Ile Leu Pro Glu Lys
 100          105          110
Val Ala Arg Val Phe Met Gln Gln Leu Ala Ser Ala Leu Gln Phe Leu
 115          120          125
His Glu Arg Asn Ile Ser His Leu Asp Leu Lys Pro Gln Asn Ile Leu
 130          135          140
Leu Ser Ser Leu Glu Lys Pro His Leu Lys Leu Ala Asp Phe Gly Phe
 145          150          155          160
Ala Gln His Met Ser Pro Trp Asp Glu Lys His Val Leu Arg Gly Ser
 165          170          175
Pro Leu Tyr Met Ala Pro Glu Met Val Cys Arg Arg Gln Tyr Asp Ala
 180          185          190
Arg Val Asp Leu Trp Ser Val Gly Val Ile Leu Tyr Glu Ala Leu Phe
 195          200          205
Gly Gln Pro Pro Phe Ala Ser Arg Ser Phe Ser Glu Leu Glu Glu Lys
 210          215          220
Ile Arg Ser Asn Arg Val Ile Glu Val Arg Leu Ala Gly Ser Arg His
 225          230          235          240
Pro Pro Gly Ile Glu Gly Leu Lys Ala Gln Lys Phe Val Gln His Cys
 245          250          255
Ser Ala Gly Ser Gly Pro Phe Met Ala Val Gly His Val Leu Trp Trp
 260          265          270
Lys Pro Arg Val Trp Ser Val Pro Glu Asp Pro Tyr Gln Pro Arg Gln
 275          280          285
Ala Thr Asn Asp Gln Ala Gln Ser Ser His Ser Pro Gly Leu Glu Ala
 290          295          300
Asn Thr His Leu Ile Gly Asp
305          310

```

<210> 60  
 <211> 373  
 <212> PRT  
 <213> Mouse

<400> 60

Met	Thr	Arg	Ser	Pro	Ala	Leu	Leu	Leu	Leu	Leu	Gly	Ala	Leu	Pro
1			5					10					15	
Ser	Ala	Glu	Ala	Arg	Gly	Pro	Pro	Arg	Met	Ala	Asp	Lys	Val	Val
		20				25					30			
Pro	Arg	Gln	Val	Ala	Arg	Leu	Gly	Arg	Thr	Val	Arg	Leu	Gln	Cys
	35					40					45			Pro
Val	Glu	Gly	Asp	Pro	Pro	Pro	Leu	Thr	Met	Trp	Thr	Lys	Asp	Gly
	50					55					60			Arg
Thr	Ile	His	Ser	Gly	Trp	Ser	Arg	Phe	Arg	Val	Leu	Pro	Gln	Gly
	65				70					75				80
Lys	Val	Lys	Glu	Val	Glu	Ala	Glu	Asp	Ala	Gly	Val	Tyr	Val	Cys
			85					90						95
Ala	Thr	Asn	Gly	Phe	Gly	Ser	Leu	Ser	Val	Asn	Tyr	Thr	Leu	Ile
		100						105					110	Ile
Met	Asp	Asp	Ile	Ser	Pro	Gly	Lys	Glu	Ser	Pro	Gly	Pro	Gly	Gly
	115					120						125		Ser
Ser	Gly	Gly	Gln	Glu	Asp	Pro	Ala	Ser	Gln	Gln	Trp	Ala	Arg	Pro
	130					135					140			Arg
Phe	Thr	Gln	Pro	Ser	Lys	Met	Arg	Arg	Arg	Val	Ile	Ala	Arg	Pro
	145				150					155				160
Gly	Ser	Ser	Val	Arg	Leu	Lys	Cys	Val	Ala	Ser	Gly	His	Pro	Arg
			165					170						175
Asp	Ile	Met	Trp	Met	Lys	Asp	Asp	Gln	Thr	Leu	Thr	His	Leu	Glu
	180							185					190	Ala
Ser	Glu	His	Arg	Lys	Lys	Lys	Trp	Thr	Leu	Ser	Leu	Lys	Asn	Leu
	195						200					205		Lys
Pro	Glu	Asp	Ser	Gly	Lys	Tyr	Thr	Cys	Arg	Val	Ser	Asn	Lys	Ala
	210				215						220			Gly
Ala	Ile	Asn	Ala	Thr	Tyr	Lys	Val	Asp	Val	Ile	Gln	Arg	Thr	Arg
	225				230					235				240
Lys	Pro	Val	Leu	Thr	Gly	Thr	His	Pro	Val	Asn	Thr	Thr	Val	Asp
			245						250					255
Gly	Gly	Thr	Thr	Ser	Phe	Gln	Cys	Lys	Val	Arg	Ser	Asp	Val	Lys
		260						265					270	Pro
Val	Ile	Gln	Trp	Leu	Lys	Arg	Val	Glu	Tyr	Gly	Ser	Glu	Gly	Arg
	275						280					285		His
Asn	Ser	Thr	Ile	Asp	Val	Gly	Gly	Gln	Lys	Phe	Val	Val	Leu	Pro
	290					295					300			Thr
Gly	Asp	Val	Trp	Ser	Arg	Pro	Asp	Gly	Ser	Tyr	Leu	Asn	Lys	Leu
	305				310					315				320
Ile	Ser	Arg	Ala	Arg	Gln	Asp	Asp	Ala	Gly	Met	Tyr	Ile	Cys	Leu
			325						330					335
Ala	Asn	Thr	Met	Gly	Tyr	Ser	Phe	Arg	Ser	Ala	Phe	Leu	Thr	Val
		340						345				350		Leu
Pro	Asp	Pro	Lys	Pro	Pro	Gly	Pro	Pro	Met	Ala	Ser	Ser	Ser	Ser
	355					360						365		
Thr	Ser	Leu	Pro	Trp										
	370													

<210> 61  
 <211> 135

<212> PRT  
<213> Mouse

<400> 61

Cys	Gln	Thr	Lys	Lys	Lys	Pro	Cys	Ala	Pro	Ala	Ser	Thr	Leu	Pro	Val
1				5					10					15	
Pro	Gly	His	Arg	Pro	Pro	Gly	Thr	Ser	Arg	Glu	Arg	Ser	Gly	Asp	Lys
			20					25					30		
Asp	Leu	Pro	Ser	Leu	Ala	Val	Gly	Ile	Cys	Glu	Glu	His	Gly	Ser	Ala
		35					40					45			
Met	Ala	Pro	Gln	His	Ile	Leu	Ala	Ser	Gly	Ser	Thr	Ala	Gly	Pro	Lys
	50					55					60				
Leu	Tyr	Pro	Lys	Leu	Tyr	Thr	Asp	Val	His	Thr	His	Thr	His	Thr	His
65					70					75					80
Thr	Cys	Thr	His	Thr	Leu	Ser	Cys	Gly	Gly	Gln	Gly	Ser	Ser	Thr	Pro
				85					90					95	
Ala	Cys	Pro	Leu	Ser	Val	Leu	Asn	Thr	Ala	Asn	Leu	Gln	Ala	Leu	Cys
			100					105					110		
Pro	Glu	Val	Gly	Ile	Trp	Gly	Pro	Arg	Gln	Gln	Val	Gly	Arg	Ile	Glu
		115					120						125		
Asn	Asn	Gly	Gly	Arg	Val	Ser									
	130					135									